KENWOOD®

HI/FI STEREO COMPONENTS

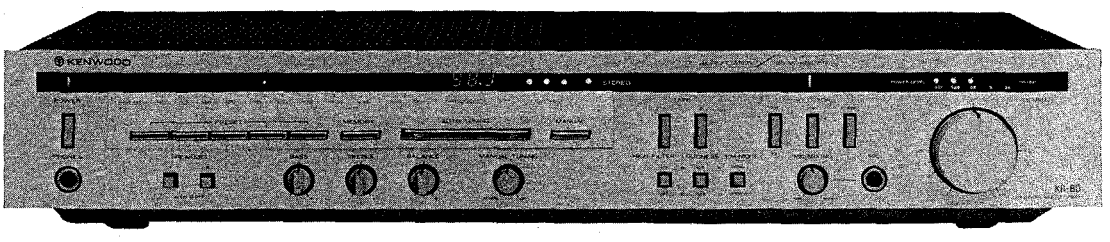
SERVICE MANUAL

KR-80
(KR-80L)

An item of adjustment is written in three languages — English, French and German.

Un article sur réglages est écrit en trois langues, Anglais, Français et Allemand.

Ein Artikel der Abgleich wird auf drei Sprachen, Englische, Französisch und Deutsch geschrieben.



STEREO RECEIVER

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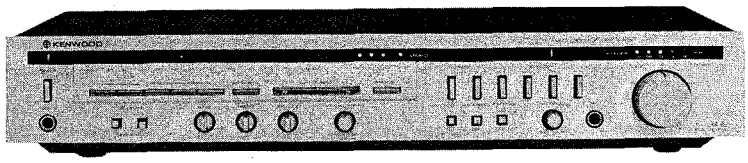


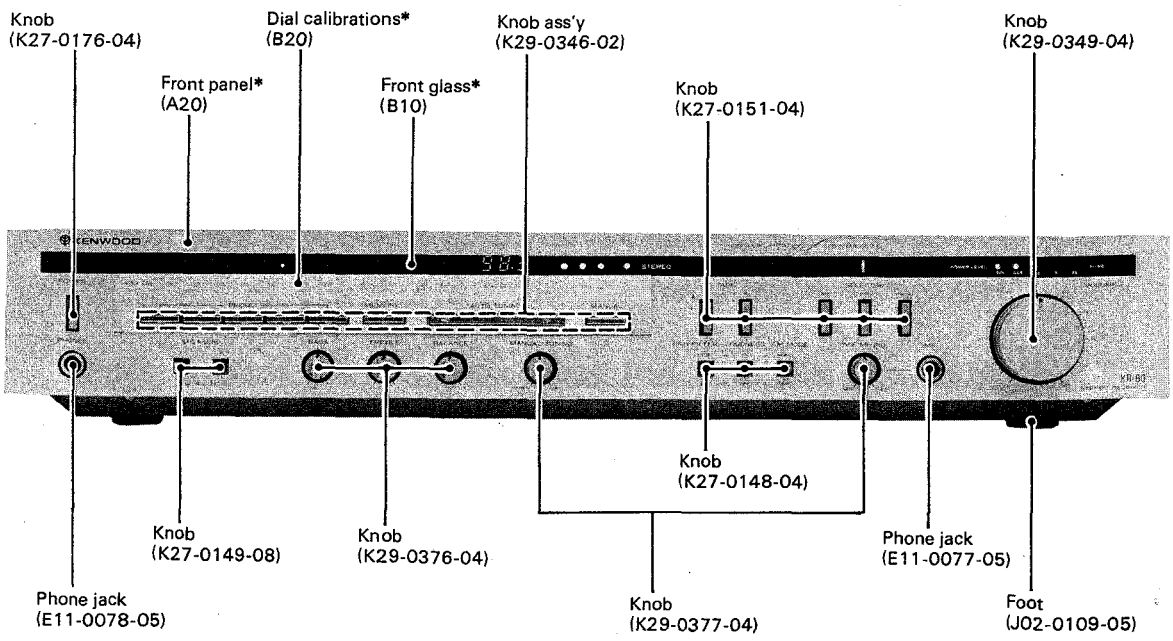
Photo is KR-80L.

Note:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

	Region	Code
KR-80	U.S.A.	K
	Canada	P
	PX (Far East)	U
	PX (Europe)	UE
	Australia	X
	South Africa	S
	England	T
	Europe and Scandinavia	E
	Other Areas	M
	Audio Club	H
KR-80L	England	T
	Europe and Scandinavia	E

There is no plan for producing units of S type.

EXTERNAL VIEW(KR-80)



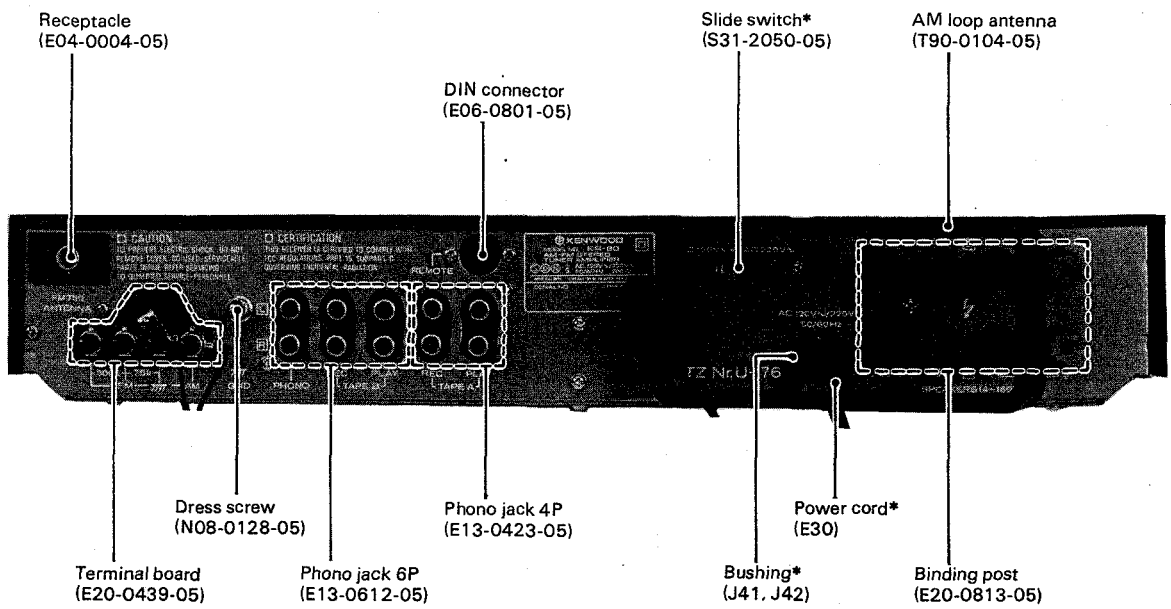
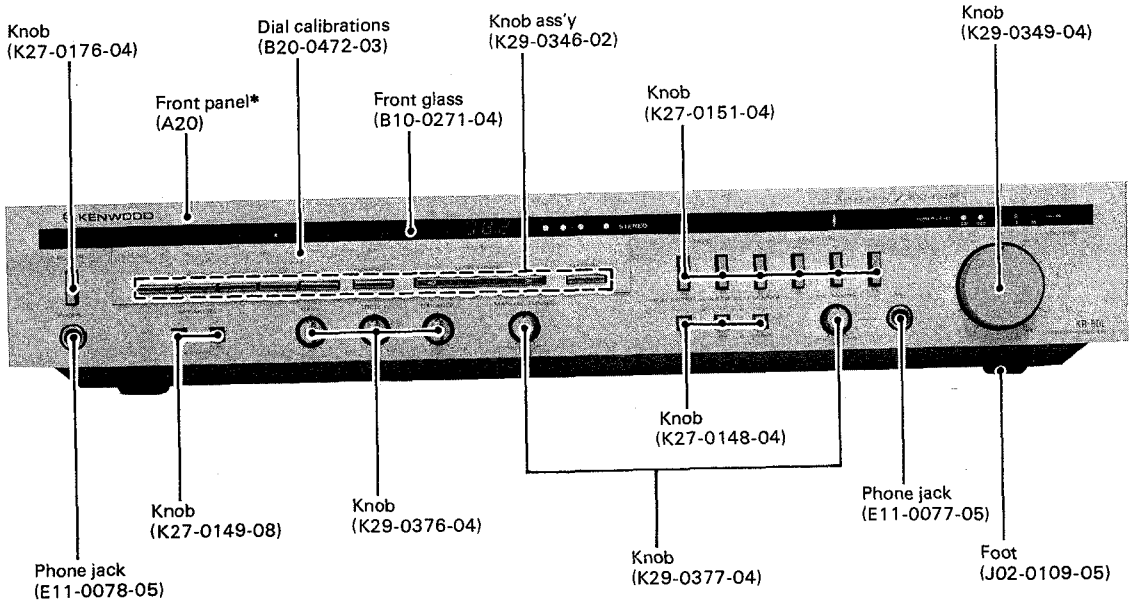


Photo is E type.

* Refer to Parts List.

EXTERNAL VIEW(KR-80L)



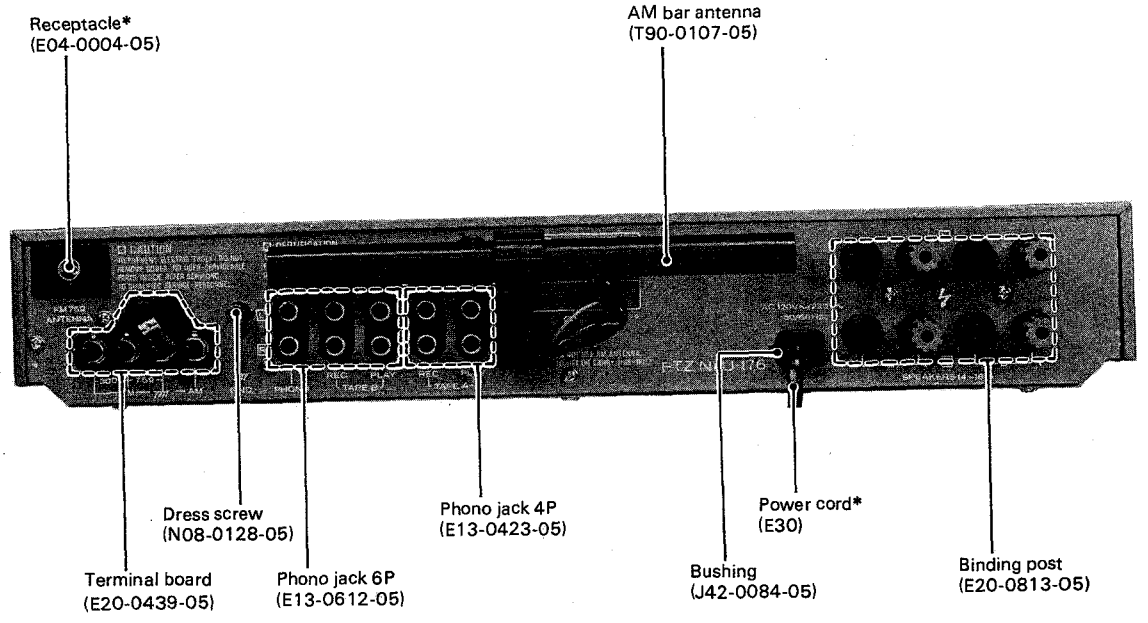
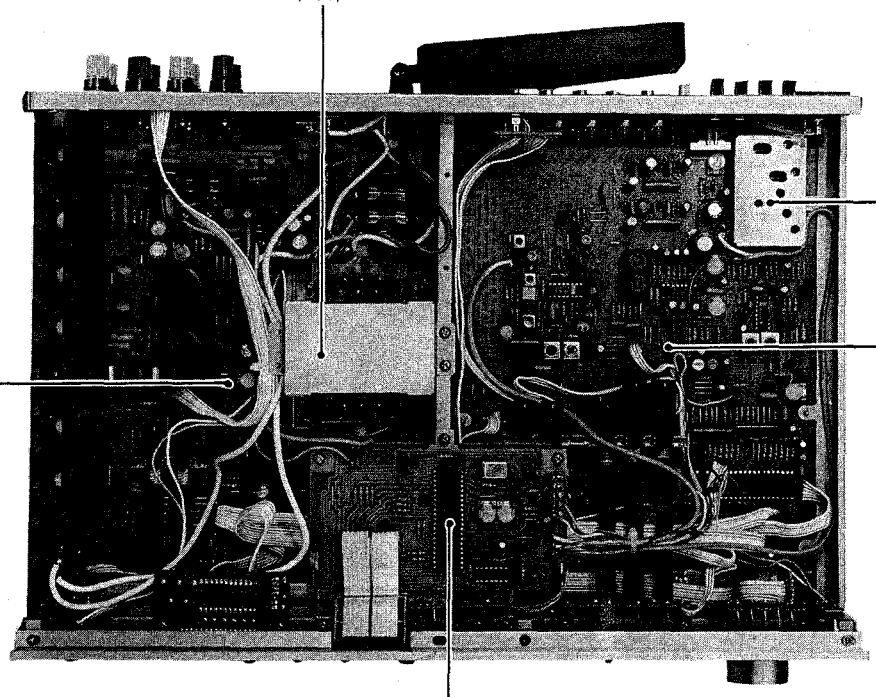


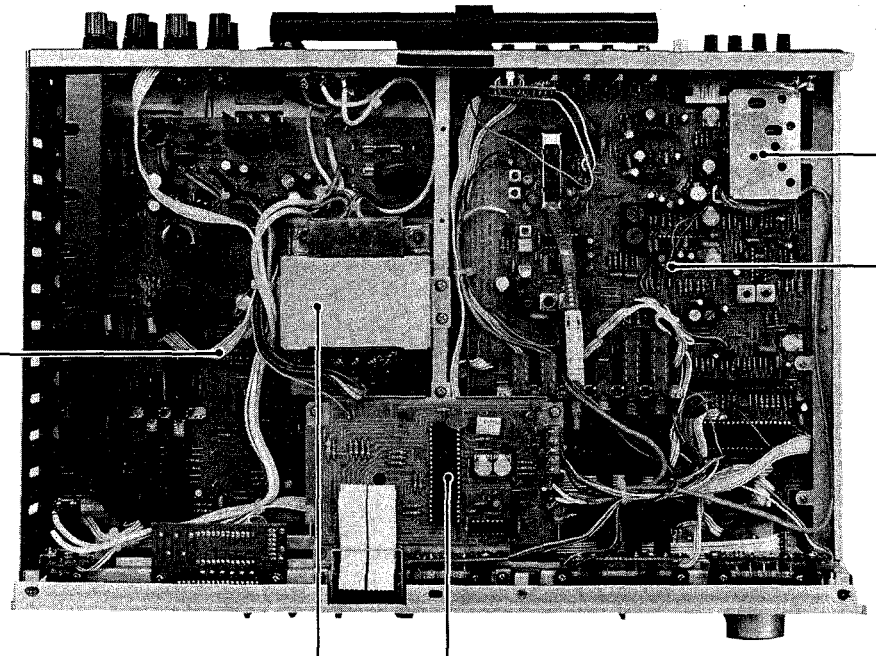
Photo is E type.
*Refer to Parts List.

INTERNAL VIEW

KR-80



KR-80L



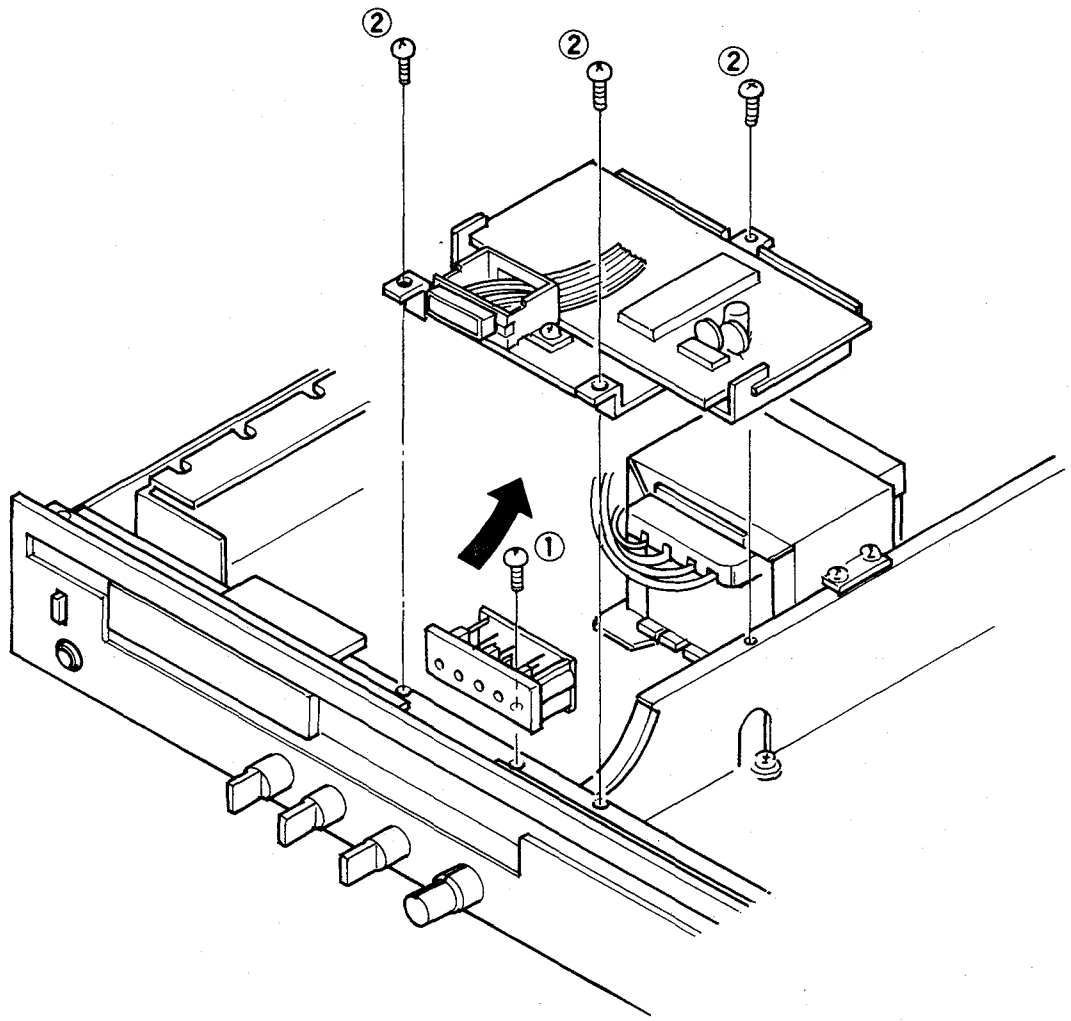
* Refer to Parts List.

DISASSEMBLY

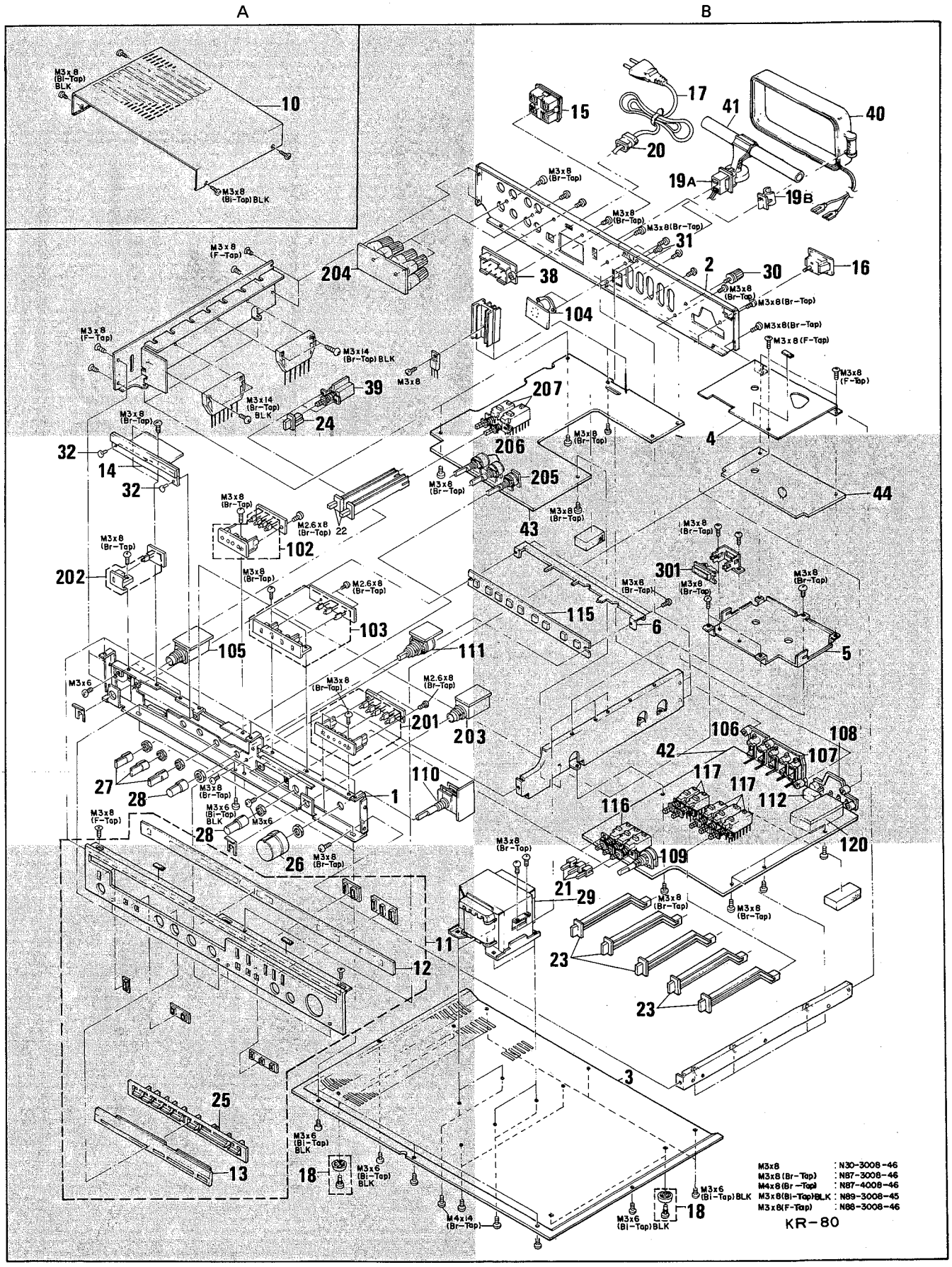
DETACHMENT OF FREQUENCY COUNTER PCB ASS'Y

① Remove the screw fixing the frequency display.
② Remove the screws fixing the frequency counter PCB ass'y.
③ Then, the frequency counter PCB ass'y can be removed.

Note:
This detachment is needed when adjusting VR1, 2 (tuner PCB ass'y) and VR4, 5 (audio PCB ass'y).

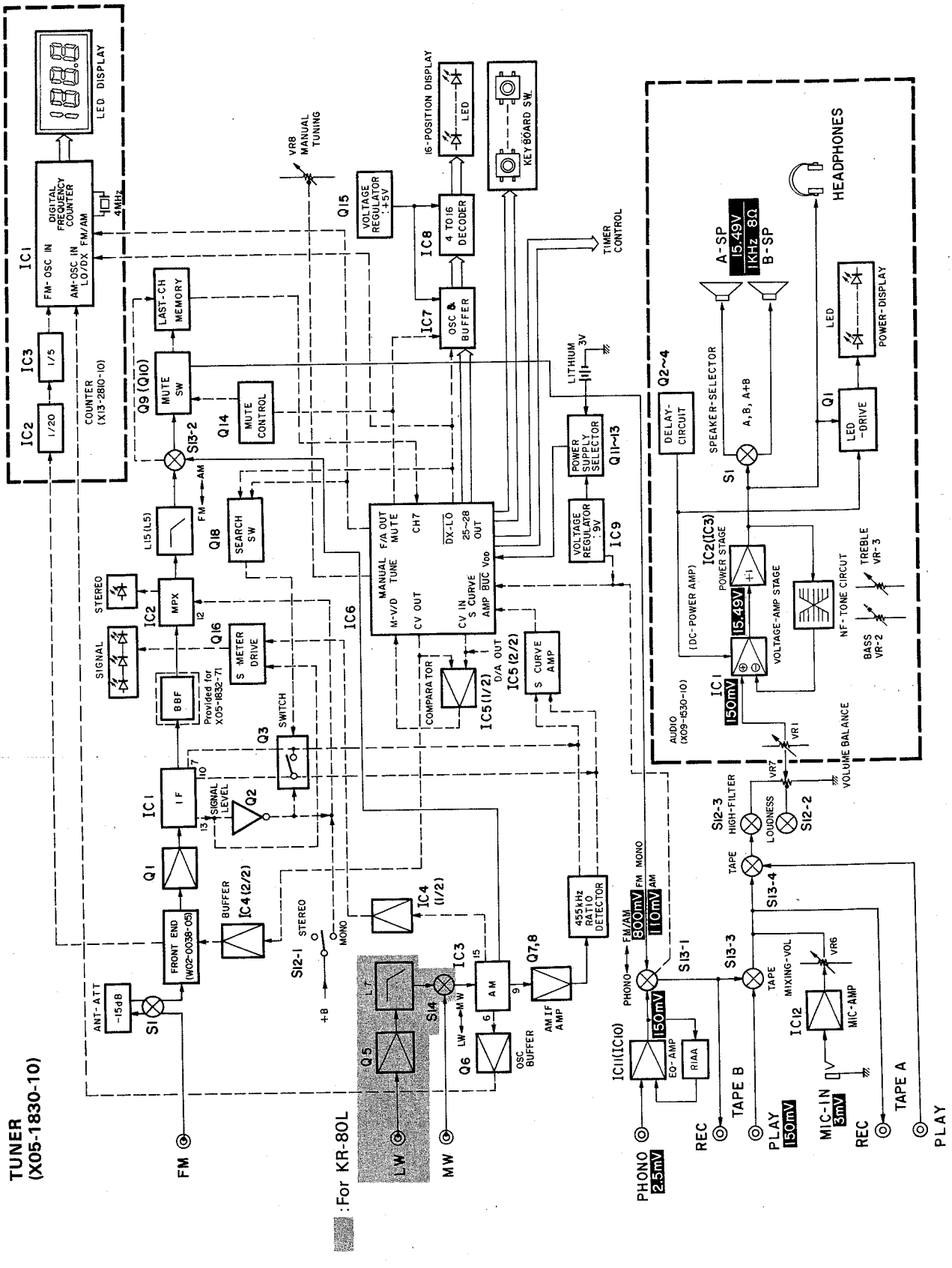


EXPLODED VIEW



Refer to Parts List on page 23.

BLOCK & LEVEL DIAGRAM



ADJUSTMENT

See page 16.

NO.	ITEM	SYSTEM CONNECTIONS	TEST EQUIPMENT SETTING	TUNER (RECEIVER) SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG. NO.
FM							
1	**REFERENCE VOLTAGE**	Connect a DC voltmeter to the junction of R1 and R3.	—	FM	VR5 (X05-1830-10)	DC voltage for ground: 8.05V ±0.05V	(a)
2	**S CURVE CENTER OFFSET**	Connect a DC voltmeter to pin 8 of IC5 AN6551 (J87).	—	PHONO	VR4 (X05-1830-10)	DC voltage for ground: 4.75V	(b)
3	**DISCRIMI-NATOR (1)**	(A)/Connect a DC voltmeter to pin 8 of IC5 AN6551 (J87).	98 MHz 0 dev 60 dB (ANT input)	FM, MANUAL MANUAL TUNING 98 MHz	L2 (X05-1830-10)	DC voltage for ground: 4.75V	(b)
4	**DISCRIMI-NATOR (2)**	(A)/(B)	98 MHz 1 kHz ±75 kHz dev 60 dB (ANT input)	FM, MANUAL MANUAL TUNING 98 MHz	L3 (X05-1830-10)	Minimum distortion	
5	**VCO**	(A)/Connect a frequency counter to the junction of R35 and VR2 via an AC voltmeter.	98 MHz 0 dev 60 dB (ANT input)	FM STEREO AUTO TUNING 98 MHz	VR2 (X05-1830-10)	Frequency: 76 kHz ±200 Hz	(c)
VCO: Voltage Controlled Oscillator							
6	**SEPARATION**	(C)/(B)	98 MHz 1 kHz ±68.25 kHz dev Selector: L or R Pilot: ±6.75 kHz dev 60 dB (ANT input)	FM STEREO AUTO TUNING 98 MHz	VR3 (X05-1830-10)	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
7	**DISTORTION (STEREO)**	(C)/(B)	98 MHz 1 kHz ±68.25 kHz dev Selector: L or R Pilot: ±6.75 kHz dev 60 dB (ANT input)	FM STEREO AUTO TUNING 98 MHz	T1 (W02-0038-05)	Minimum distortion	
AM (KR-80)							
Keep the AM loop antenna installed.							
(1)	**IF TRANS-FORMER**	(D)/(B)	1000 kHz 400 Hz, 30% mod	AM AUTO TUNING 1000 kHz	L10 (X05-1830-10)	Maximum amplitude and symmetry of the oscilloscope display.	
(2)	**AM BAND EDGE (HIGH)**	—	—	AM, MANUAL/ Fully turn the MANUAL TUNING knob clockwise (until it becomes free).	TC1 (X05-1830-10)	Frequency display reading: 1650	
(3)	**AM BAND EDGE (LOW)**	—	—	AM, MANUAL/ Fully turn the MANUAL TUNING knob counterclockwise (until it becomes free).	VR1 (X05-1830-10)	Adjust VR1 so that the frequency counter reads 515. If the specified value cannot be obtained, adjust L9 and VR1.	
(4)	**RF ALIGNMENT (AM)**	(D)/(B)	600 kHz 400 Hz, 30% mod	AM AUTO TUNING 600 kHz	L6 (X05-1830-10)	Maximum amplitude and symmetry of the oscilloscope display.	
(5)	**RF ALIGNMENT (AM)**	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM AUTO TUNING 1400 kHz	TC2 (X05-1830-10)	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (4) and (5) several times.							
(6)	**DISCRIMI-NATOR (AM)**	(D)/Connect a DC voltmeter to pin 8 of IC5 AN6551.	1400 kHz 400 Hz, 30% mod 25 dB (ANT input)	AM, MANUAL MANUAL TUNING 1400 kHz	L13 (X05-1830-10)	DC voltage for ground: 4.75V	(b)

ADJUSTMENTS

NO.	ITEM	SYSTEM CONNECTIONS	TEST EQUIPMENT SETTING	TUNER (RECEIVER) SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG. NO.
AM (KR-80L)							
[1]	**IF TRANS-FORMER**	(D)/(B)	1000 kHz 400 Hz, 30% mod	AM AUTO TUNING 1000 kHz	L10 (X05-1830-10)	Maximum amplitude and symmetry of the oscilloscope display.	
[2]	**AM BAND EDGE (HIGH)**	—	—	AM, MANUAL/ Fully turn the MANUAL TUNING knob clockwise (until it becomes free).	TC1 (X05-1830-10)	Frequency display reading: 1650	
[3]	**AM BAND EDGE (LOW)**	—	—	AM, MANUAL/ Fully turn the MANUAL TUNING knob counterclockwise (until it becomes free).	VR1 (X05-1830-10)	Adjust VR1 so that the frequency counter reads 515. If the specified value cannot be obtained, adjust L9 and VR1.	
[4]	**RF ALIGNMENT (AM)**	(D)/(B)	600 kHz 400 Hz, 30% mod	AM AUTO TUNING 600 kHz	AM ferrit bar antenna (A)	Maximum amplitude and symmetry of the oscilloscope display.	
[5]	**RF ALIGNMENT (AM)**	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM AUTO TUNING 1400 kHz	TC2 (X05-1830-10)	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments [4] and [5] several times.							
[6]	**LW BAND EDGE (HIGH)**	—	—	LW, MANUAL/ Fully turn the MANUAL TUNING knob clockwise (until it becomes free).	TC3 (X05-1830-10)	Frequency display reading: 355	
[7]	**LW BAND EDGE (LOW)**	—	—	LW, MANUAL/ Fully turn the MANUAL TUNING knob counterclockwise (until it becomes free).	L8	Frequency display reading: 145	
[8]	**RF ALIGNMENT (LW)**	(D)/(B)	170 kHz 400 Hz, 30% mod	LW 170 kHz	AM ferrite bar antenna (B)	Maximum amplitude and symmetry of the oscilloscope display.	
[9]	**RF ALIGNMENT (LW)**	(D)/(B)	325 kHz 400 Hz, 30% mod	LW 325 kHz	TC4 (X05-1830-10)	Maximum amplitude and symmetry of the oscilloscope display.	
RF = radio frequency							
[10]	**DISCRIMI-NATOR (AM)**	(D)/Connect a DC voltmeter to pin 8 of IC5 AN6551.	1400 kHz 400 Hz, 30% mod 25 dB (ANT input)	AM, MANUAL MANUAL TUNING 1400 kHz	L13 (X05-1830-10)	DC voltage for ground: 4.75V	(b)
FREQUENCY DISPLAY							
I	**FREQUENCY DISPLAY (FM)**	(A)/Insert a 4.7kΩ resistor between pins 10 and 11 of IC1 LC7259 (X13-2810-10)	89.10 MHz 0 dev 60 dB (ANT input)	FM-MONO AUTO TUNING 89.1 MHz	VR1 (X13-2810-10)	Adjust VR1 so that the frequency display reads 89.1 and stops flickering	(d)
II	**FREQUENCY DISPLAY (AM)**	(D)/Insert a 6.8kΩ resistor between pins 7 and 11 of IC1 LC7259 (X13-2810-10)	1440.0 kHz 0 mod 60 dB (ANT input)	AM AUTO TUNING 1440.0 kHz	VR2 (X13-2810-10)	Adjust VR2 so that the frequency display reads 1440.0 and stops flickering	(e)
POWER AMP							
i	**OFFSET**	Connect a DC voltmeter between terminal 8 (9) of X09-1530-10 and the ground.	—	PHONO VOLUME: 0	VR4 (L ch) VR5 (R ch)	0V	(f)

REGLAGES

Voir la page 16.

N°	ITEM	RACCORDEMENTS DU SYSTEME	REGLAGE DE L'APPAREILLAGE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG. N°
MF							
1	**TENSION DE REFERENCE**	Connecter un voltmètre CC à la jonction de R1 et R3.	—	FM	VR5 (X05-1830-10)	Tension continue pour terre: 8,05V ±0,05V	(a)
2	**DESAXAGE DE CENTRE DE COURBE S**	Connecter un voltmètre CC à la fiche 8 de IC5 AN6551 (J87).	—	PHONO	VR4 (X05-1830-10)	Tension continue pour terre: 4,75V	(b)
3	**DISCRIMINATEUR (1)**	(A)/Connecter un voltmètre CC à la fiche 8 de IC5 AN6551 (J87).	98 MHz 0 dév 60 dB (Entrée ANT)	FM, MANUAL accord manuel 98 MHz	L2 (X05-1830-10)	Tension continue pour terre: 4,75V	(b)
4	**DISCRIMINATEUR**	(A)/(B)	98 MHz 1 kHz ±75 kHz dév 60 dB (Entrée ANT)	idem	L3 (X05-1830-10)	Distortion minimale	
5	**OSCILLATEUR CONTROLE PAR LA TENSION**	(A)/Connecter un compteur de fréquence à la jonction de R35 et VR2 par un voltmètre CA.	98 MHz 0 dév 60 dB (Entrée ANT)	FM STEREO accord automatique 98 MHz	VR2 (X05-1830-10)	Fréquence: 76 kHz ±200 Hz	(c)
6	**SEPARATION**	(C)/(B)	98 MHz 1 kHz ±68,25 kHz dév SELECTION: L ou R Signal pilote: ±6,75 kHz dév 60 dB (Entrée ANT)	FM STEREO accord automatique 98 MHz	VR3 (X05-1830-10)	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
7	**DISTORSION (STEREO)**	(C)/(B)	98 MHz 1 kHz ±68,25 kHz dév SELECTION: L ou R Signal pilote: ±6,75 kHz dév 60 dB (Entrée ANT)	FM STEREO accord automatique 98 MHz	T1 (W02-0038-05)	Distorsion minimale	
MA (KR-80)							
Laisser l'antenne boucle MA installée.							
(1)	**TRANSFORMATEUR F.I.**	(D)/(B)	1000 kHz 400 Hz, 30% mod	AM/accord automatique 1000 kHz	L10 (X05-1830-10)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(2)	**BORD DE BANDE (HAUT)**	—	—	AM, MANUAL/ Tourner le bouton MANUAL TUNING vers la droit à fond (jusqu'à ce qu'il devienne libre).	TC1 (X05-1830-10)	La lecture de l'affichage de fréquence: 1650	
(3)	**BORD DE BANDE (BAS)**	—	—	AM, MANUAL/ Tourner le bouton MANUAL TUNING vers la gauche à fond (jusqu'à ce qu'il devienne libre).	VR1 (X05-1830-10)	Régler VR1 en sorte que le compteur de fréquence donne une lecture de 515. Si la valeur specifiée ne peut pas être obtenue, régler L9 et VR1.	
(4)	**ALIGNEMENT H.T. (MA)**	(D)/(B)	600 kHz 400 Hz, 30% mod	AM/accord automatique 600 kHz	L6 (X05-1830-10)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(5)	**ALIGNEMENT H.T. (MA)**	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM/accord automatique 1400 kHz	TC2 (X05-1830-10)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Repéter les alignements (4) et (5) plusieurs fois.							
(6)	**DISCRIMINATEUR (MA)**	(D)/Connecter un voltmètre CC à la fiche 8 de IC5 AN6551 (J87).	1400 kHz 400 Hz, 30% mod 25 dB (Entrée ANT)	AM, MANUAL accord manuel 1400 kHz	L13 (X05-1830-10)	Tension continue pour terre: 4,75V	(b)

REGLAGES

N°	ITEM	RACCORDEMENTS DU SYSTEME	REGLAGE DE L'APPAREILLAGE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG. N°
MA (KR-80L)							
[1]	**TRANSFORMATEUR F.I.**	(D)/(B)	1000 kHz 400 Hz, 30% mod	AM/accord automatique 1000 kHz	L10 (X05-1830-10)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
[2]	**BORD DE BANDE (HAUT)**	—	—	AM, MANUAL/ Tourner le bouton MANUAL TUNING vers la droit à fond (jusqu'à ce qu'il devienne libre).	TC1 (X05-1830-10)	La lecture de l'affichage de fréquence: 1650	
[3]	**BORD DE BANDE (BAS)**	—	—	AM, MANUAL/ Tourner le bouton MANUAL TUNING vers la gauche à fond (jusqu'à ce qu'il devienne libre).	VR1 (X05-1830-10)	Régler VR1 en sorte que le compteur de fréquence donne une lecture de 515. Si la valeur specifiée ne peut pas être obtenue, régler L9 et VR1.	
[4]	**ALIGNEMENT H.T. (MA)**	(D)/(B)	600 kHz 400 Hz, 30% mod	AM/accord automatique 600 kHz	Antenne MA (A)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
[5]	**ALIGNEMENT H.T. (MA)**	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM/accord automatique 1400 kHz	TC2 (X05-1830-10)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Repéter les alignements [4] et [5] plusieurs fois.							
[6]	**BORD DE BANDE (HAUT)**	—	—	LW, MANUAL/ Tourner le bouton MANUAL TUNING vers la droit à fond (jusqu'a ce qu'il devienne libre).	TC3 (X05-1830-10)	La lecture de l'affichage de fréquence 355	
[7]	**BORD DE BANDE (BAS)**	—	—	LW, MANUAL/ Tourner le bouton MANUAL TUNING vers la gauche à fond (jusqu'a ce qu'il devienne libre).	L8	La lecture de l'affichage de fréquence: 145	
[8]	**ALIGNEMENT H.T. (LW)**	(D)/(B)	170 kHz 400 Hz, 30% mod	LW 170 kHz	Antenne MA (B)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
[9]	**ALIGNEMENT H.T. (LW)**	(D)/(B)	325 kHz 400 Hz, 30% mod	LW 325 kHz	TC4 (X05-1830-10)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
H.T. = haute fréquence							
[10]	**DISCRIMINATEUR (MA)**	(D)/Connecter un voltmètre CC à la fiche 8 de IC5 AN6551 (J87).	1400 kHz 400 Hz 30% mod 25 dB (Entrée ANT)	AM, MANUAL accord manuel 1400 kHz	L13 (X05-1830-10)	Tension continue pour terre: 4,75V	(b)
AFFICHAGE FREQUENCY							
I	**AFFICHAGE FREQUENCY (MF)**	(A)/Insérer un résistor de 4,7kΩ entre les fiches 10 et 11 de IC1 LC7259 (X13-2810-10).	89,10 MHz 0 dév 60 dB (Entrée ANT)	FM-MONO accord automatique 89,1 MHz	VR1 (X13-2810-10)	Régler VR1 en sorte que la lecture de l'affichage de fréquence soit de 89,1 et l'affichage s'arrêtera de papilloter.	(d)
II	**AFFICHAGE FREQUENCY (MA)**	(D)/Insérer un résistor de 6,8kΩ entre les fiches 7 et 11 de IC1 LC7259 (X13-2810-10).	1440,0 kHz 0 mod 60 dB (Entrée ANT)	AM accord automatique 1440 kHz	VR2 (X13-2810-10)	Régler VR2 en sorte qu la lecture de l'affichage de fréquence soit de 1440 et l'affichage s'arrêtera de papilloter.	(e)
AMPLIFICATEUR DE PUISSANCE							
i	**DECALAGE (OFFSET)**	Connecter un voltmètre CC entre terminale 8(9) de X09-1530-10 et la terre.	—	PHONO VOLUME: 0	VR4 (gauche) VR5 (droit)	0V	(f)

ABGLEICH

Sehen den page 16.

NR.	GEGENSTAND	SYSTEM-ANSCHLÜSSE	PRÜFEIN-RICHTUNG-EINSTELLUNG	TUNER (RECEIVER)-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB. NR.
UKW							
1	**REFERENZ-SPANNUNG**	Einen Gleichspannungsmesser zur Verbindung von R1 und R3 anschließen.	—	FM	VR5 (X05-1830-10)	Gleichspannung für Erde: 8,05V ±0,05V	(a)
2	**ZENTRUM-ABWEICHUNG DER S-KURVE**	Einen Gleichspannungsmesser zum Stift 8 von IC5 AN6551 (J87).	—	PHONO	VR4 (X05-1830-10)	Gleichspannung für Erde: 4,75V	(b)
3	**DISKRIMI-NATOR (1)**	(A)/Einen Gleichspannungsmesser zum Stift 8 von IC5 AN6551 (J87).	98 MHz 0 Hub 60 dB (ANT-Eingang)	FM, MANUAL manuelle Abstimmung 98 MHz	L2 (X05-1830-10)	Gleichspannung für Erde: 4,75V	(b)
4	**DISKRIMI-NATOR (2)**	(A)/(B)	98 MHz 1 kHz ±75 kHz Hub 60 dB (ANT-Eingang)	FM, MANUAL manuelle Abstimmung	L3 (X05-1830-10)	Minimaler Klirrfaktor	
5	**SPANNUNGS-GEREGELTER OSZILLATOR**	(A)/Einen Frequenzmesser zur Verbinddung von R35 und VR2 über einem Wechselspannungsmesser anschließen.	98 MHz 0 Hub 60 dB (ANT-Eingang)	FM STEREO automatische Abstimmung 98 MHz	VR2 (X05-1830-10)	Frequenz: 76 kHz ±200 Hz	(c)
6	**STEREO KANAL TRENNUNG**	(C)/(B)	98 MHz 1 kHz ±68,25 kHz Hub Wähler: L oder R Pilotton: ±6,75 kHz Hub 60 dB (ANT-Eingang)	FM STEREO automatische Abstimmung 98 MHz	VR3 (X05-1830-10)	Minimales Übersprechen. Eine Ausgleichrege lung kann notwendig sein, falls links-zu-rechts und rechts-zu-links Trennungen ungleich sind.	
7	**KLIRRFAKTOR (STEREO)**	(C)/(B)	98 MHz 1 kHz ±68,25 kHz Hub Wähler: L oder R Pilotton: ±6,75 kHz Hub 60 dB (ANT-Eingang)	FM STEREO automatische Abstimmung 98 MHz	T1 (W02-0038-05)	Minimaler Klirrfaktor	
MW (KR-80)							
Die MW-Rahmenantenne angebracht lassen.							
(1)	**ZF-ÜBERTRAGER**	(D)/(B)	1000 kHz 400 Hz, 30% mod	AM automatische Abstimmung 1000 kHz	L10 (X05-1830-10)	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(2)	**MW BANDKANTE (HOCH)**	—	—	AM, MANUAL/ Den MANUAL TUNING Knopf ganz nach rechts drehen (bis er frei wird).	TC1 (X05-1830-10)	Die Ablesung des Frequenzbildes: 1650	
(3)	**MW BANDKANTE (NIEDRIG)**	—	—	AM, MANUAL/ Den MANUAL TUNING Knopf ganz nach links drehen (bis er frei wird).	VR1 (X05-1830-10)	VR1 so einstellen, daß die Ablesung des Frequenzbildes 515 ist. Falls der angegebene Wert nicht erreicht werden kann, L9 und VR1 regeln.	
(4)	**HF-ABGLEICH (MW)**	(D)/(B)	600 kHz 400 Hz, 30% mod	AM/automatische Abstimmung 600 kHz	L6 (X05-1830-10)	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(5)	**HF-ABGLEICH (MW)**	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM/automatische Abstimmung 1400 kHz	TC2 (X05-1830-10)	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen [4] und [5] mehrere Male wiederholen.							
(6)	**DISKRIMI-NATOR (MW)**	Einen Gleichspannungsmesser zum Stift 8 von IC5 AN6551 (J87).	1400 kHz 400 Hz, 30% mod 25 dB (ANT-Eingang)	AM, MANUAL manuelle Abstimmung 1400 kHz	L13 (X05-1830-10)	Gleichspannung für Erde: 4,75V	(b)

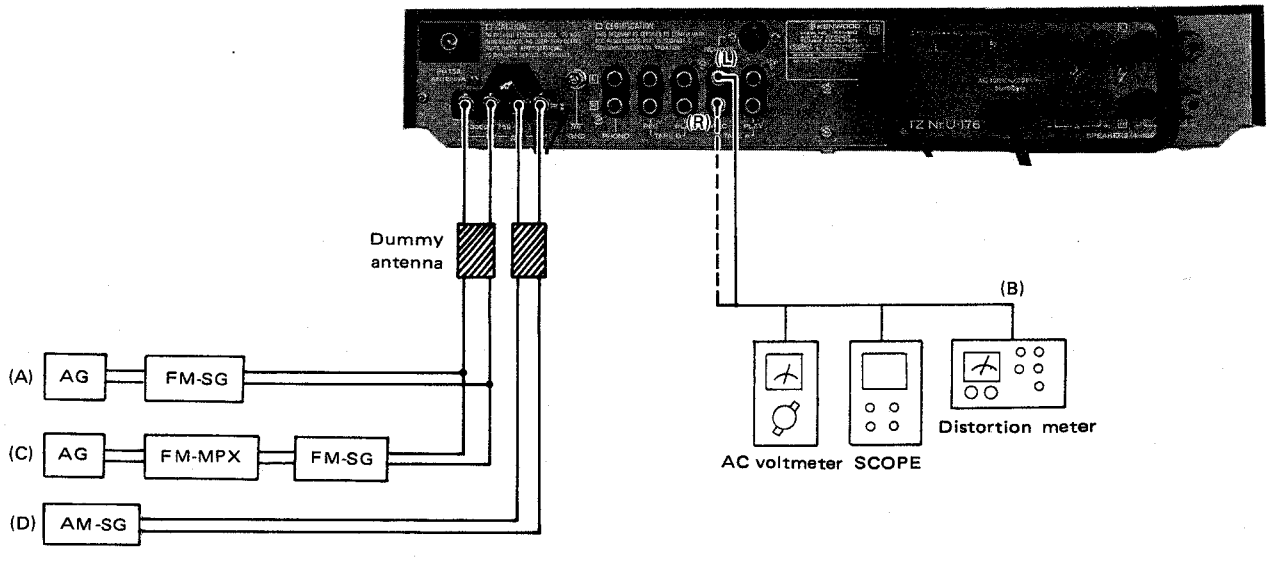
ABGLEICH

NR.	GEGENSTAND	SYSTEM-ANSCHLÜSSE	PRÜFEIN-RICHTUNG-EINSTELLUNG	TUNER (RECEIVER)-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB. NR.
MW/LW (KR-80L)							
[1]	**ZF-ÜBERTRAGER**	(D)/(B)	1000 kHz 400 Hz, 30% mod	AM/ automatische Abstimmung 1000 kHz	L10 (X05-1830-10)	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
[2]	**MW BANDKANTE (HOCH)**	–	–	AM, MANUAL/ Den MANUAL TUNING Knopf ganz nach rechts drehen (bis er frei wird).	TC1 (X05-1830-10)	Die Ablesung des Frequenzbildes: 1650	
[3]	**MW BANDKANTE (NIEDRIG)**	–	–	AM, MANUAL/ Den MANUAL TUNING Knopf ganz nach links drehen (bis er frei wird).	VR1 (X05-1830-10)	VR1 so einstellen, daß die Ablesung des Frequenzbildes 515 ist. Falls der angegebene Wert nicht erreicht werden kann, L9 und VR1 regeln.	
[4]	**HF-ABGLEICH (MW)**	(D)/(B)	600 kHz 400 Hz, 30% mod	AM/automatische Abstimmung 600 kHz	MW-Ferritantenne (B)	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
[5]	**HF-ABGLEICH (MW)**	(D)/(B)	1400 kHz 400 Hz, 30% mod	AM/automatische Abstimmung 1400 kHz	TC2 (X05-1830-10)	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen [4] und [5] mehrere Male wiederholen.							
[6]	**LW BANDKANTE (HOCH)**	–	–	LW, MANUAL/ Den MANUAL TUNING Knopf ganz nach rechts drehen (bis er frei wird).	TC3 (X05-1830-10)	Die Ablesung des Frequenzbildes: 355	
[7]	**LW BANDKANTE (NIEDRIG)**	–	–	LW, MANUAL/ Den MANUAL TUNING Knopf ganz nach links drehen (bis er frei wird).	L8	Die Ablesung des Frequenzbildes: 145	
[8]	**HF-ABGLEICH (LW)**	(D)/(B)	170 kHz 400 Hz, 30% mod	LW 170 kHz	MW-Ferritantenne (B)	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
[9]	**HF-ABGLEICH (LW)**	(D)/(B)	325 kHz 400 Hz, 30% mod	LW 325 kHz	TC4 (X05-1830-10)	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
HF = Hochfrequenz							
[10]	**DISKRIMI-NATOR (MW)**	Einen Gleichspannungsmesser zum Stift 8 von IC5 AN6551 (J87).	1400 kHz 400 Hz, 30% mod 25 dB (ANT-Eingang)	AM, MANUAL manuelle Abstimmung 1400 kHz	L13 (X05-1830-10)	Gleichspannung für Erde: 4,75V	(b)
FREQUENZANZEIGE							
I	**DIGITAL-FREQUENZ-ANZEIGE (UKW)**	(A)/Einen 4,7kΩ Widerstand zwischen Stifte 10 und 11 von IC1 LC7259 (X13-2810-10) einführen.	89,10 MHz 0 Hub 60 dB (ANT-Eingang)	FM-MONO automatische Abstimmung 89,1 MHz	VR1 (X13-2810-10)	VR1 so einstellen, daß die Ablesung des Frequenzbildes 89,1 ist und das Bild zu flickern aufhört.	(d)
II	**DIGITAL-FREQUENZ-ANZEIGE (MW)**	(D)/Einen 6,8kΩ Widerstand zwischen Stifte 7 und 11 von IC1 LC7259 (X13-2810-10) einführen.	1440,0 kHz 0 mod 60 dB (ANT-Eingang)	AM automatische Abstimmung 1440 kHz	VR22 (X13-2810-10)	VR2 so einstellen, daß die Ablesung des Frequenzbildes 1440 ist und das Bild zu flickern aufhört.	(e)
ENDVERSTÄRKER							
i	**VERSCHIE-BUNG (OFFSET)**	Einen Gleichspannungsmesser zwischen Klemme 8 von X09-1530-10 und der Erde.	–	PHONO VOLUME: 0	VR4 (linken Kanal) VR5 (rechten Kanal)	0V	(f)

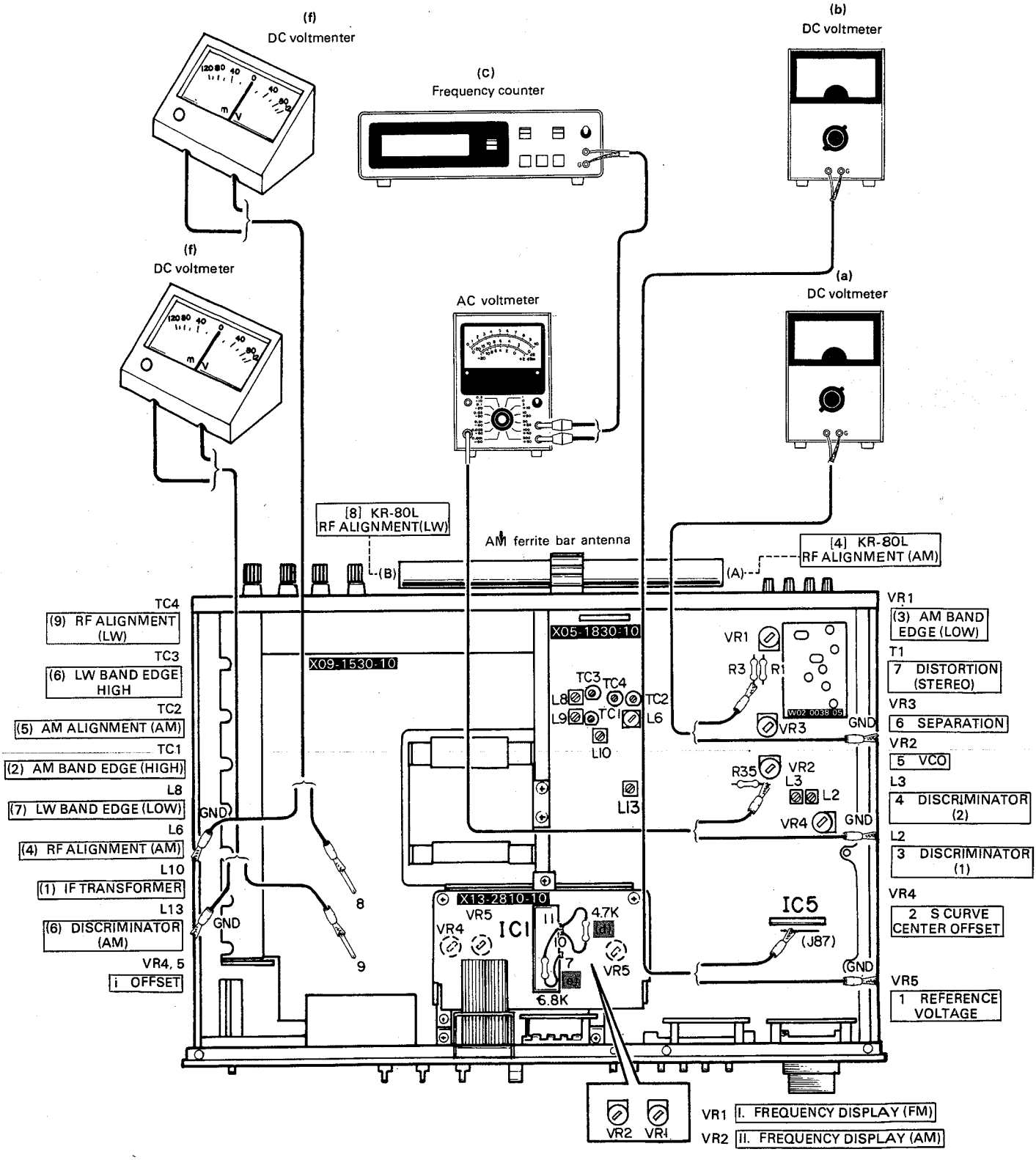
ADJUSTMENT/REGLAGES/ABGLEICH

TEST INSTRUMENT	APPAREILLAGE	PRÜFINSTRUMENTE	
Oscilloscope	Oscilloscope	Oszilloskop	SCOPE
AM signal generator	Générateur MA	MW-Signalgenerator	AM-SG
FM signal generator	Générateur MF	UKW-Signalgenerator	FM-SG
Audio generator	Générateur àudio fréquences	NF-Signalgenerator	AG
AC voltmeter	Volltmètre CA	Wechselspannungsmesser	
FM multiplex generator	Générateur multiplex stéréo	UKW-Multiplexgenerator	FM-MPX
Frequency counter	Fréquencemètre	Frequenzzähler	
DC voltmeter	Voltmètre CC	Gleichspannungsmesser	
Distortion meter	Distorsiomètre	Klirrfaktormesser	
Dummy antenna	Antenna fictive	Antennennachbildung	

SYSTEM CONNECTIONS/RACCORDEMENTS DU SYSTEME/SYSTEM-ANSCHLÜSSE



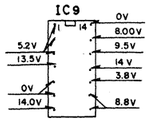
ADJUSTMENT/REGLAGES/ABGLEICH



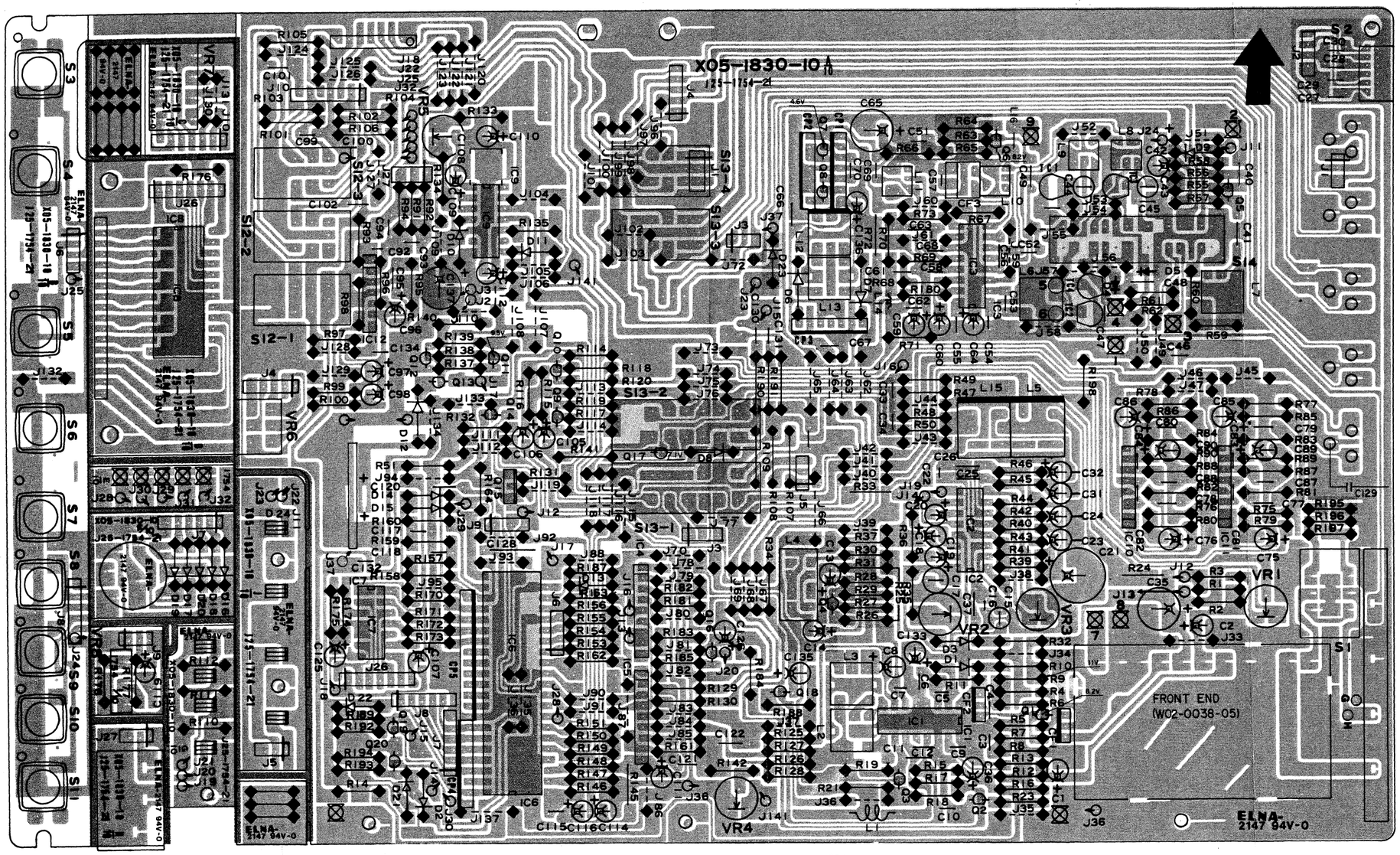
KR-80(L) KR-80(L)

PC BOARD

TUNER (X05-1830-10, 81, X05-1832-71, 72)
Component side view

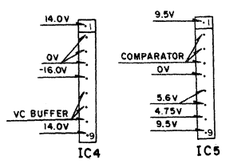


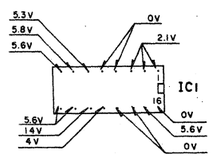
: Regional circuit modification

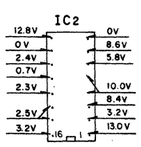


	Q4	Q5	D4 D5	D9	D23	D24	TC2 TC3 TC4	CF1 CF2 CF3	S2	S13	S14	L4	L7 L8	LI4	VR3	R25 ≀ R31	R55 ≀ R60	R95	CI3 C14	C25 C26	C27 ≀ C30	C33 C34	C40 ≀ C43	C44	C45	C47	CI37
X05-1830-10	NO	NO	✳	NO	NO	NO	✳	✳	NO	✳	NO	NO	NO	✳	✳	NO	NO	YES	NO	✳	NO	✳	NO	✳	NO	NO	NO
X05-1830-81	NO	NO	✳	NO	NO	NO	✳	✳	YES	✳	NO	NO	NO	✳	✳	NO	NO	NO	NO	NO	YES	✳	NO	✳	NO	NO	NO
X05-1832-71	YES	NO	✳	NO	NO	NO	✳	✳	NO	✳	NO	YES	YES	✳	✳	YES	NO	YES	NO	YES	✳	NO	✳	✳	NO	NO	NO
X05-1832-72	YES	YES	✳	YES	YES	YES	✳	✳	NO	✳	YES	YES	YES	✳	✳	YES	YES	NO	YES	✳	NO	✳	YES	✳	YES	YES	YES

✳ Refer to Schematic Diagram and/or Parts List



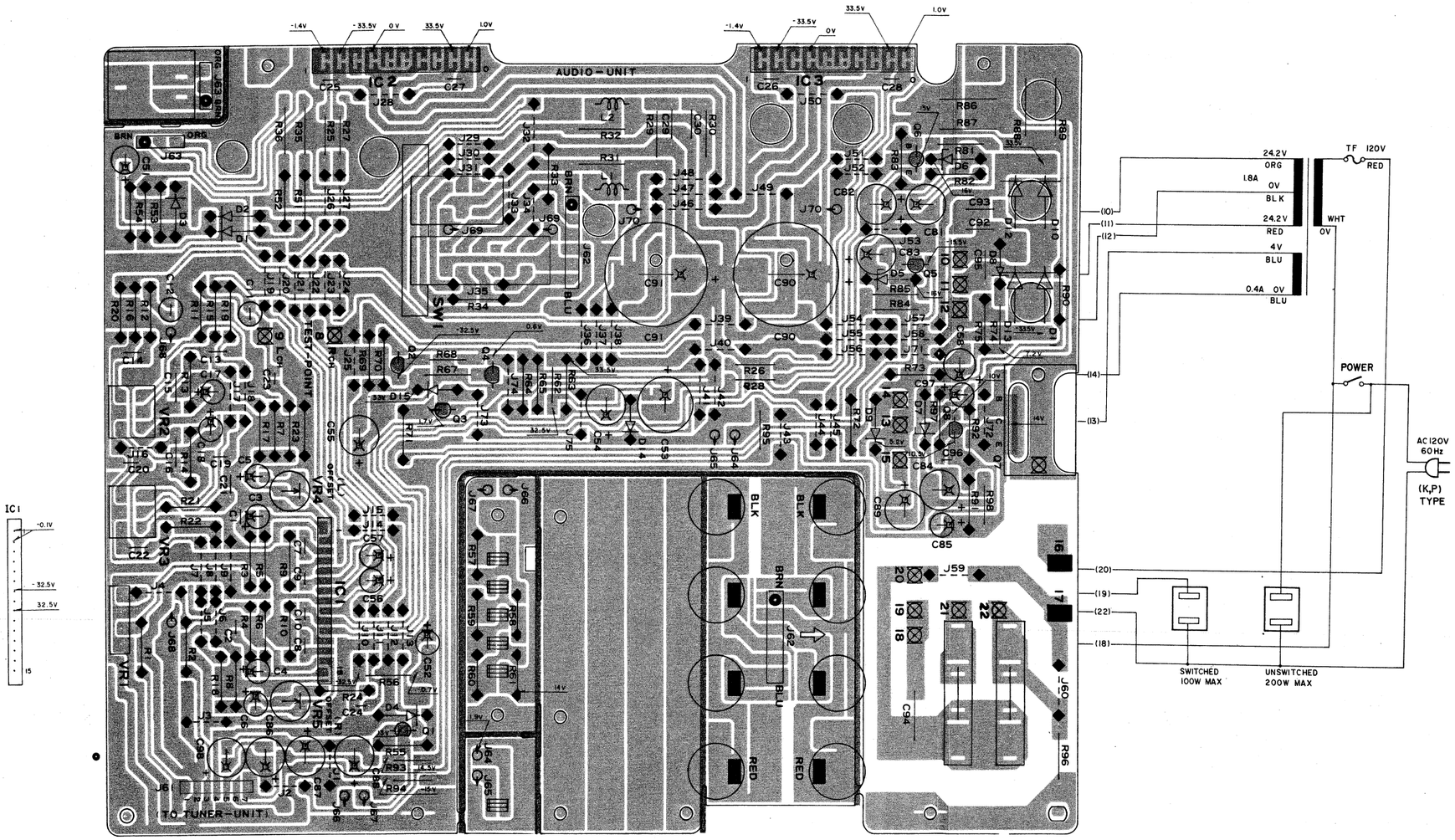




Refer to the schematic diagram for the values or resistors and capacitors.

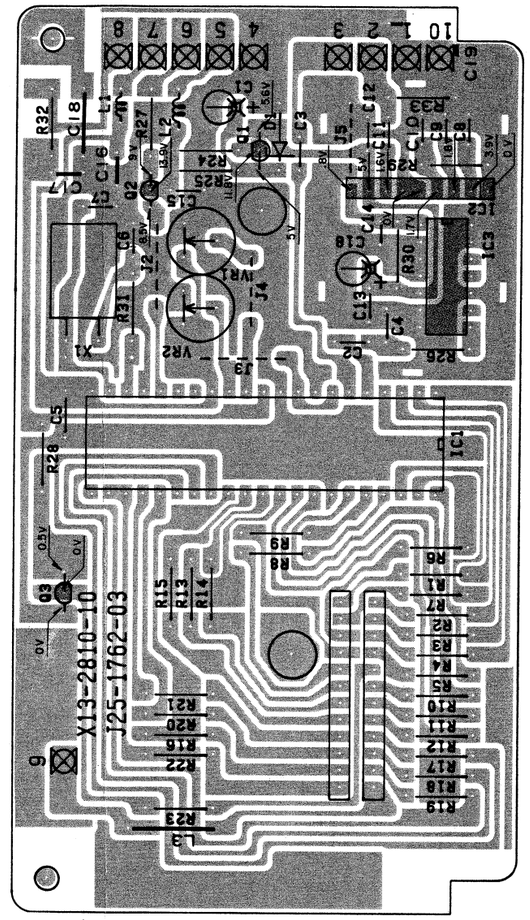
PC BOARD

AUDIO AMP (X09-1530-10, 51, 81, X09-1532-71, 72)
Component side view



	F1	F2	R96	C94	C95
X09-1530-10	2.5A(UL)	NO	2.2M	C91-0079-05	NO
X09-1530-51	NO	1.25A(SEMKO)	NO	C91-0079-05	NO
X09-1530-81	2.5A	1.5A	NO	C91-0023-05	NO
X09-1532-71	2.5A(SEMKO)	1.25A(SEMKO)	NO	C91-0079-05	0.01

FREQUENCY COUNTER (X13-2810-10)
Component side view



Refer to the schematic diagram for the values of resistors and capacitors.

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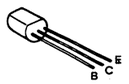
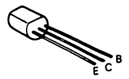


2SA564A 2SC1509
2SA733(A) 2SC1845
2SA984K 2SC2320
2SC945 2SC1923
2SC828A



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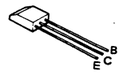

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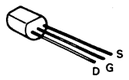
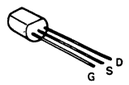
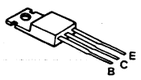
2SK136



2SK168



2SD613
2SD726



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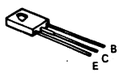
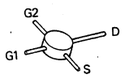
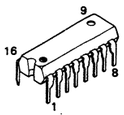


3SK85



HA1137W
HA1196
HA1197



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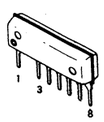
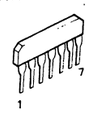
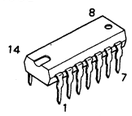


UPC1024H



μPD4069



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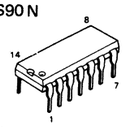
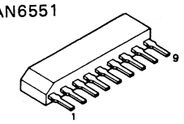
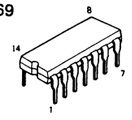
SN74LS90N



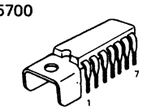
AN6821
AN6551



TC4069



LA5700



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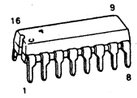
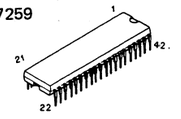
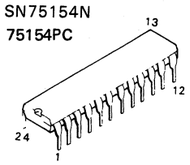


LC7207
LC7259



SN75154N
75154PC



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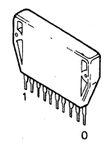

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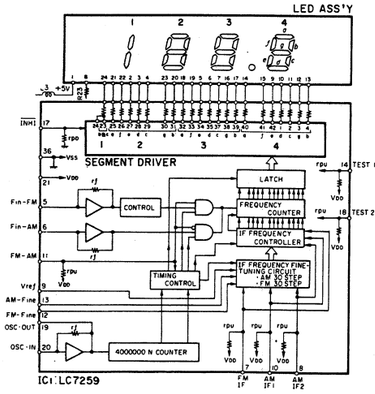

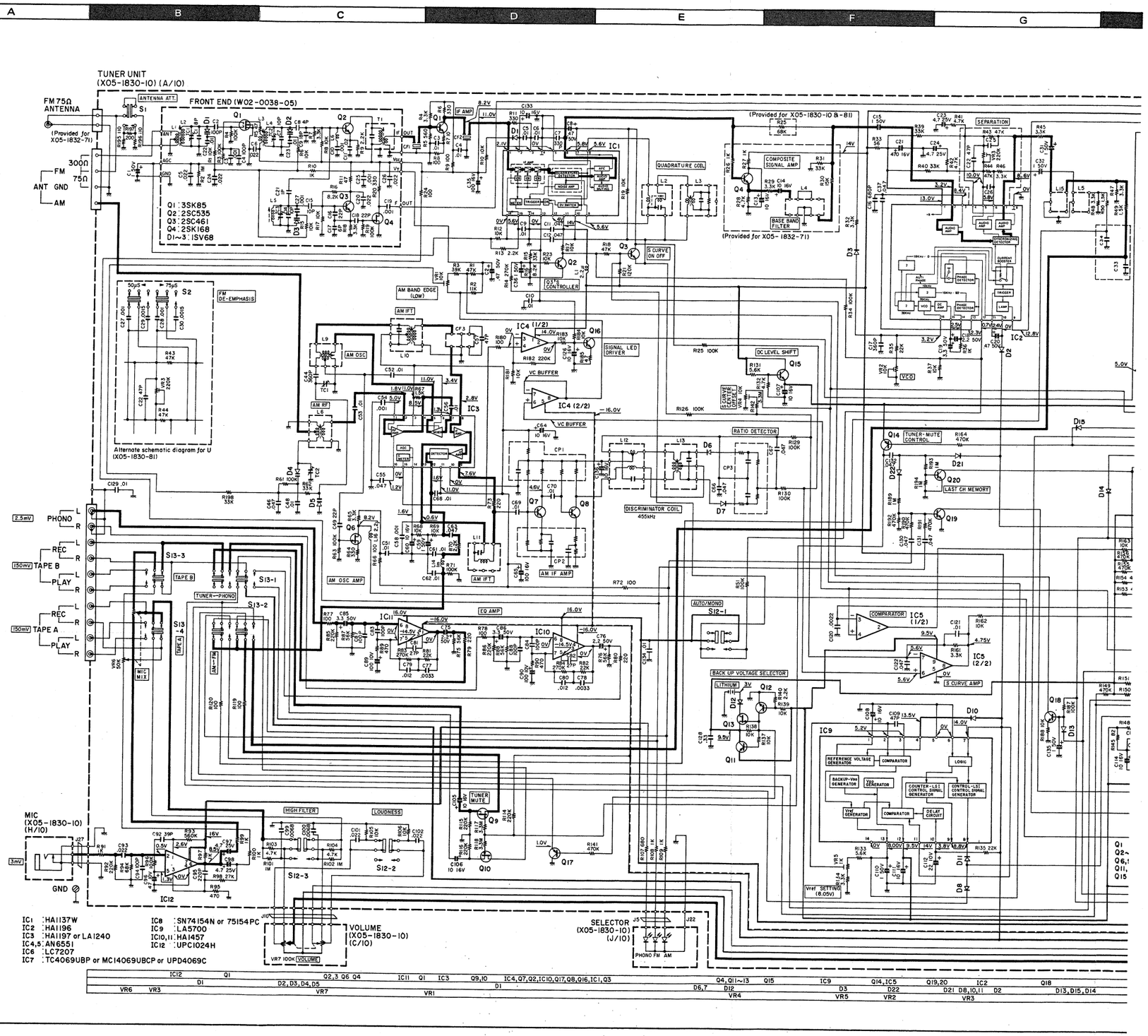

KR-80

SPECIFICATIONS

AUDIO SECTION

Power Output

27 watts* per channel, minimum RMS both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.05% total harmonic distortion.

Both Channels Driven	
into 8 ohms at 1,000 Hz	31 W + 31 W
into 4 ohms at 1,000 Hz	31 W + 31 W
Total Harmonic Distortion (20 Hz to 20 kHz from TAPE)	
rated power into 8 ohms	0.05%
1 W power into 8 ohms	0.03%
Intermodulation Distortion (60 Hz:7 kHz = 4:1 SMPTE)	
rated power into 8 ohms	0.02%
Damping Factor	45 at 1 kHz, 8 ohms
Input Sensitivity/Impedance	
PHONO	2.5 mV/50 kohms
TAPE	150 mV/50 kohms
MIC	3.0 mV/50 kohms
Signal-to-Noise Ratio (A weighted)	
PHONO	78 dB for 2.5 mV input
	84 dB for 5.0 mV input
TAPE	105 dB for 150 mV input
MIC	72 dB for 3.0 mV input
Maximum Phono Input Level	
at 1,000 Hz	160 mV (RMS), THD 0.05%
Frequency Response	
PHONO RIAA Standard Curve	20 Hz to 20 kHz ± 0.3 dB
TAPE	5 Hz to 130 kHz −3 dB
Tone Control	
Bass	± 3 dB at 100 Hz
Treble	± 8 dB at 10 kHz
Loudness Control (VOL −30 dB)	+ 10 dB at 100 Hz
High Filter	5 kHz, 6 dB/oct
Output Level/Impedance	
TAPE REC Out (Pin)	150 mV/300 ohms

FM TUNER SECTION

Usable Sensitivity	10.3 dBf (1.8 μV)
50 dB Quieting Sensitivity	
Mono	16.1 dBf (3.5 μV)
Stereo	37.2 dBf (40 μV)
Signal-to-Noise Ratio at 65 dBf	
Mono	75 dB
Stereo	70 dB
	72 dB (at 85 dBf)
Total Harmonic Distortion at 1 kHz	
Mono	0.1%
Stereo	0.15%
Frequency Response	30 Hz to 15 kHz, +0.5 dB, −2.0 dB
Capture Ratio	1.0 dB
Image Rejection Ratio	50 dB
Spurious Response Ratio	80 dB
IF Response Ratio	105 dB
Alternate Channel Selectivity	50 dB at 400 kHz
AM Suppression Ratio	60 dB
Stereo Separation Ratio	47 dB at 1,000 Hz
	35 dB at 50 Hz to 10 kHz
Subcarrier Product Ratio	55 dB
Antenna Impedance	300 ohms balanced &
	75 ohms unbalanced
FM Frequency Range	88 MHz to 108 MHz

AM TUNER SECTION

Usable Sensitivity	10 μV
Signal-to-Noise Ratio	50 dB
Image Rejection	35 dB
Selectivity	40 dB

GENERAL

Power Consumption	135 W (8 ohms at rated power)
	22 W (No Signal)
AC Outlets	Switched 1, Unswitched 1
Dimensions	W 440 mm (17-5/16")
	H 78 mm (3-1/16")
	D 336 mm (13-7/32")
Weight	(Net) 6.1 kg (13.4 lb)
	(Gross) 7.0 kg (15.4 lb)

*Measured pursuant to Federal Trade Commision's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

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Kenwood strebt standige Verbesserungen in der Entwicklung an. Daher bleiben Anderungen der technischen Daten jederzeit vorbehalten.

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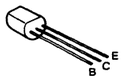
DC voltages are measured by a VOM of 20 kΩ/V input impedance.

2SC1735



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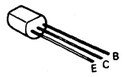
2SC828A



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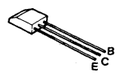

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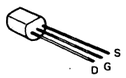

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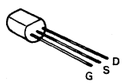

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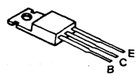

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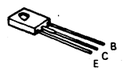

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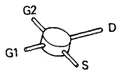

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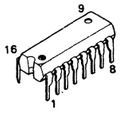

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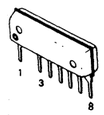

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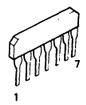

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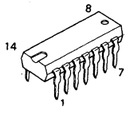

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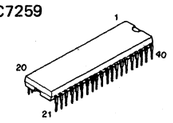

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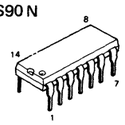

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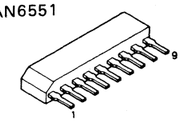

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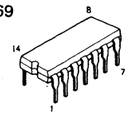

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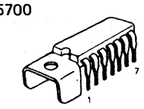

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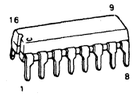

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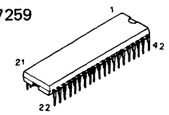

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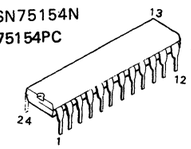

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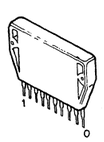

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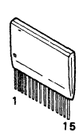
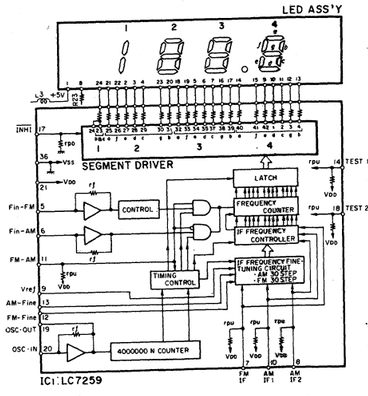


LED ASS'Y



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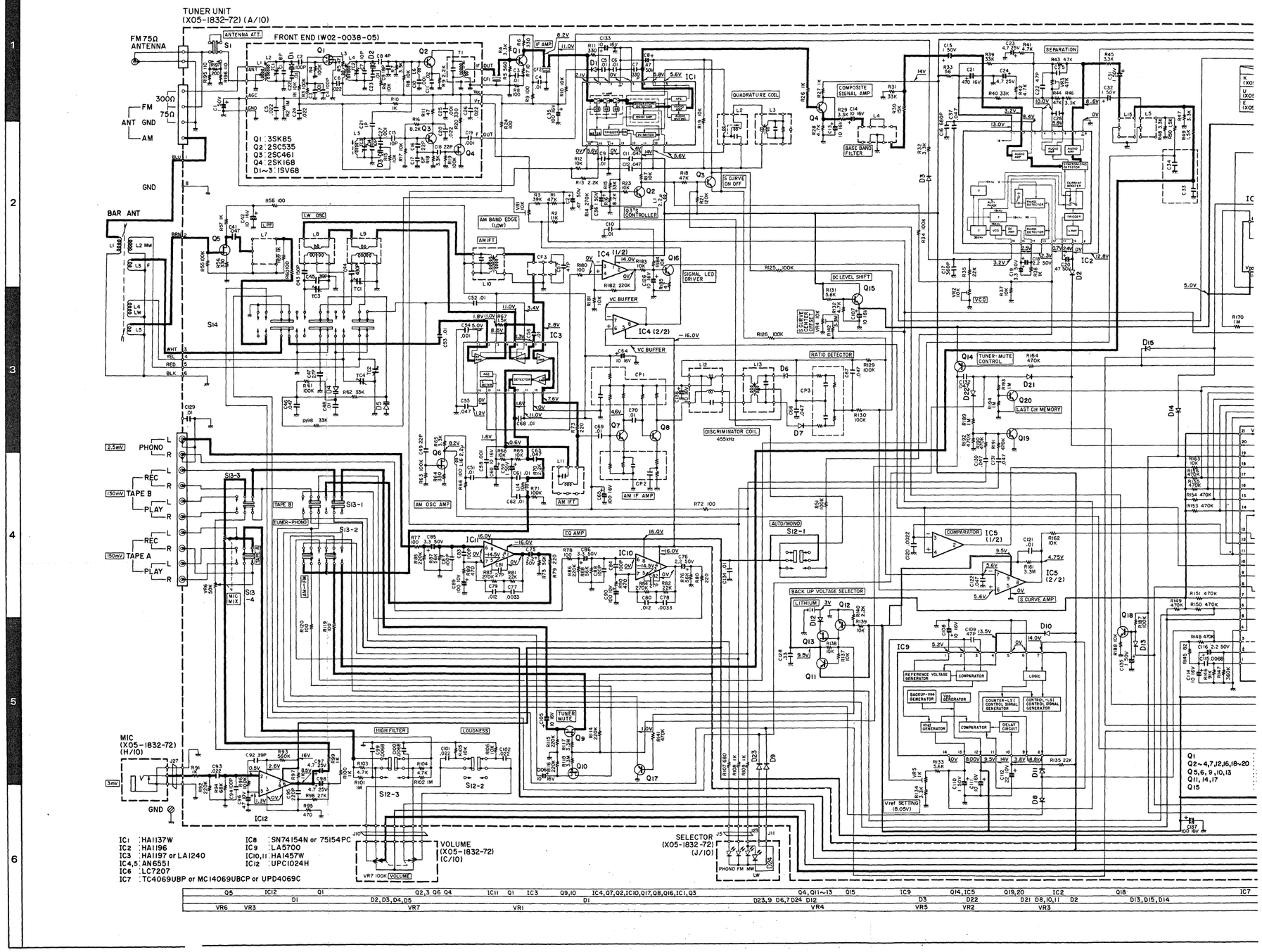

STEREO RECEIVER

KR-80L

SPECIFICATIONS

AUDIO SECTION

Rated Power Output
- 8 ohms at 20 Hz to 20 kHz
  - no more than 0.05% THD (FTC) ..... 27 W + 27 W
- 4 ohms at 63 Hz to 12.5 kHz
  - no more than 0.7% THD (IEC) ..... 30 W + 30 W

Total Harmonic Distortion
- Rated Power Output into 8 ohms 0.05%

Intermodulation Distortion 0.02%

Frequency Response ..... 5 Hz ~ 130 kHz, +0.5 dB, −3 dB

S/N Weighted: Rated Output Power (IEC-A)
( ) = Unweighted at 50 mW (DIN)
- Phono ..... 78 dB (58 dB)
- Tuner, Tape ..... 105 dB (60 dB)

Damping Factor at 8 ohms, 1 kHz 45

Input Sensitivity/Impedance
- Phono ..... 2.5 mV/50 kΩ
- Tuner, Tape ..... 150 mV/50 kΩ

Tone Control
- Bass 100 Hz ..... ±8 dB
- Treble 10 kHz ..... ±8 dB

Loudness Control (−30 dB) ..... 100 Hz, +10 dB

High Filter ..... 5 kHz, 6 dB/oct.

FM TUNER SECTION

Sensitivity at 75 ohms
- Mono: S/N 26 dB, 40 kHz Dev. ..... 0.7 μV
- Stereo: S/N 46 dB, 46 kHz Dev. ..... 25 μV

50 dB Quieting Sensitivity Mono (IHF) ..... 3.5 μV

Limiting Level
−3 dB Point, 40 kHz Dev. ..... 0.4 μV

Frequency Response ..... 30 Hz ~ 15 kHz, +0.5 dB, −2 dB

Total Harmonic Distortion
- Mono: 1 kHz, 40 kHz Dev. 0.09%
- Stereo: 1 kHz, 46 kHz Dev. 0.2%

S/N Weighted (IEC-A)
- Mono: 40 kHz Dev., 1 mV Input ..... 70 dB
- Stereo: 46 kHz Dev., 1 mV Input ..... 65 dB

S/N Ratio (IHF)
- Mono: 75 kHz Dev., 1 mV Input ..... 75 dB
- Stereo: 75 kHz Dev., 1 mV Input ..... 70 dB

FM Stereo Separation: 1 mV Input (DIN)
- 250 Hz ..... 37 dB
- 1 kHz ..... 45 dB
- 6.3 kHz ..... 30 dB
- 12.5 kHz ..... 22 dB

Image Rejection Ratio ..... 50 dB

Selectivity
- 300 kHz, 20 dB input ..... 75 dB

IF Rejection Ratio ..... 105 dB

AM Suppression Ratio ..... 60 dB

Spurious Response Ratio ..... 80 dB

Capture Ratio ..... 1.0 dB

Pilot Tone 19 kHz ..... 55 dB

MW TUNER SECTION

Sensitivity S/N 20 dB ..... 10 μV

S/N Ratio: 1 mV Input ..... 50 dB

Image Rejection Ratio ..... 35 dB

LW TUNER SECTION

Sensitivity S/N 20 dB ..... 15 μV

S/N Ratio: 1 mV Input ..... 50 dB

Image Rejection Ratio ..... 58 dB

GENERAL

Power Consumption
- Rated Power at 8 ohms ..... 135 W
- No signal ..... 22 W

Dimensions ..... W: 440 mm, H: 78 mm, D: 336 mm

Weight (Net) ..... 6.1 kg

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DC voltages are measured by a VOM of 20 kΩ/V input impedance.

PARTS LIST

INSTRUCTION FOR PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
② ① 18 1A	A01-0608-12	METALLIC CABINET	* ③
19 2A	A20-1979-11	FRONT PANEL ASSY	*K ④
19 2A	A20-1979-11	FRONT PANEL ASSY	PM
19 2A	A20-1979-11	FRONT PANEL ASSY	SU
19 2A	A20-1979-11	FRONT PANEL ASSY	XW
⑤ R221	R43-1333-15	FL-PROOF RD330 J 2H	* ⑥
R222	R43-1368-15	FL-PROOF RD680 J 2H	*
VR1 ,2	R12-3301-05	TRIMMING POT, 20K(B)	
VR3 ,4	R19-4305-05	POTENTIOMETER (OUTPUT)	*
VR5 ,6	R12-2302-05	TRIMMING POT, 5K(B)	

① Exploded view drawing No.
② Position in exploded view.
③ Symbol of new parts.
④ Area to which parts are shipped. Example: A20-1979-11 is the part No. of FRONT PANEL ASS'Y for the "K" type products (for U.S.A.). When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.
⑤ Reference No. in schematic diagram.
⑥ Abbreviation of "ceramic capacitor".
All capacitors and resistors are listed using abbreviations. Abbreviations.

* Abbreviations of capacitors (Parts No. with initial letter "C").

ELECTRO	Electrolytic capacitor
LL-ELEC	Low leak electrolytic capacitor
NP-ELEC	Non-pole electrolytic capacitor
MICA	Mica capacitor
POLYSTY	Polystyrene capacitor
MYLAR	Mylar capacitor
CERAMIC	Ceramic capacitor
TANTAL	Tantalum capacitor
MF	Metallized film capacitor
MP	Metallized paper capacitor
OIL	Oil capacitor

The unit "UF" is used in lieu of "μF"

* Abbreviations of resistors (Parts No. with initial letters "R").

RC	Carbon composition resistor	
RD	Carbon film resistor	
FL-PROOF RD	Flame-proof carbon film resistor	
RW	Wire wound power resistor	
FL-PROOF RS	Flame-proof metal oxide film resistor	
RN	Metal film resistor	
FUSE-RESIST	Resistor with fuse function	
2B	Rated wattage	1/8W
2E	Rated wattage	1/4W
2H	Rated wattage	1/2W
3A	Rated wattage	1W
3D	Rated wattage	2W
3F	Rated wattage	3W
3G	Rated wattage	4W
3H	Rated wattage	5W

All resistor values are indicated with the unit (Ω) omitted.

* Abbreviations common to capacitors and resistors.

C	±0.25pF (Used for capacitors only)
D	±0.5pF (Used for capacitors only)
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%
Z	+80%, −20%(Used for capacitors only)
P	+100%, −0%(Used for capacitors only)

Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

* Codes in X05-1530-10
K: X05-1530-10
U: X05-1530-81
E: X05-1532-71
[E]: X05-1532-72

* Codes in X09-1530-10
K: X09-1530-10
T: X09-1530-51
U: X09-1530-81
E: X09-1532-71

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
KR-80, 80L (UNIT)			
1 2A	-	SUB PANEL	
2 1B	-	REAR PANEL	
3 3B	-	BOTTOM PLATE	
4 2B	-	SHIELDING PLATE	
5 2B	-	MOUNTING HARDWARE	
6 2B	-	MOUNTING HARDWARE	
10 1A	A01-0385-03	METALLIC CABINET	
11 3A	A20-1631-03	FRONT PANEL	*K
11 3A	A20-1631-03	FRONT PANEL	PU
11 3A	A20-1631-03	FRONT PANEL	MH
11 3A	A20-1631-03	FRONT PANEL	XE
11 3A	A20-1631-03	FRONT PANEL	[UE]
11 3A	A20-1633-03	FRONT PANEL	*T
11 3A	A20-1634-03	FRONT PANEL	*[T]
11 3A	A20-1635-03	FRONT PANEL	*[E]
-	B46-0055-20	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	T[T]
-	B46-0061-20	WARRANTY CARD	K
-	B46-0062-20	WARRANTY CARD	UH
-	B46-0063-13	WARRANTY CARD	UH
-	B46-0064-10	WARRANTY CARD	X
-	B50-3138-00	INSTRUCTION MANUAL	*K
-	B50-3138-00	INSTRUCTION MANUAL	PU
-	B50-3138-00	INSTRUCTION MANUAL	MH
-	B50-3138-00	INSTRUCTION MANUAL	X
-	B50-3138-00	INSTRUCTION MANUAL	[UE]
-	B50-3140-00	INSTRUCTION MANUAL	*P
-	B50-3140-00	INSTRUCTION MANUAL	MX
-	B50-3141-00	INSTRUCTION MANUAL	*T
-	B50-3142-00	INSTRUCTION MANUAL	*E
-	B50-3143-00	INSTRUCTION MANUAL	*[E]
-	B50-3144-00	INSTRUCTION MANUAL	*[T]
-	B50-3185-00	INSTRUCTION MANUAL	*[E]
12 3A	B10-0269-04	FRONT GLASS	*K
12 3A	B10-0269-04	FRONT GLASS	PU
12 3A	B10-0269-04	FRONT GLASS	MH
12 3A	B10-0269-04	FRONT GLASS	XE
12 3A	B10-0269-04	FRONT GLASS	[UE]
12 3A	B10-0269-04	FRONT GLASS	T
12 3A	B10-0271-04	FRONT GLASS	*[T]
12 3A	B10-0271-04	FRONT GLASS	[E]
13 3A	B20-0470-03	DIAL CALIBRATIONS	*K
13 3A	B20-0470-03	DIAL CALIBRATIONS	PU
13 3A	B20-0470-03	DIAL CALIBRATIONS	MH
13 3A	B20-0470-03	DIAL CALIBRATIONS	XE
13 3A	B20-0470-03	DIAL CALIBRATIONS	[UE]
13 3A	B20-0470-03	DIAL CALIBRATIONS	T
13 3A	B20-0472-03	DIAL CALIBRATIONS	*[T]
13 3A	B20-0472-03	DIAL CALIBRATIONS	[E]
14 2A	B38-0015-05	DISPLAY ASSY	*
15 1B	E03-0023-05	AC OUTLET	*K
15 1B	E03-0023-05	AC OUTLET	UM
15 1B	E03-0023-05	AC OUTLET	HX
15 1B	E03-0023-05	AC OUTLET	[UE]
15 1B	E03-0024-05	AC OUTLET	*P
16 1B	E04-0004-05	RECEPTACLE	TE
16 1B	E04-0004-05	RECEPTACLE	[TE]
17 1B	E30-0181-05	POWER CORD	KP
17 1B	E30-0185-05	POWER CORD	X
17 1B	E30-0459-05	POWER CORD	E[E]

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
17 1B	E30-0545-05	POWER CORD	UM
17 1B	E30-0545-05	POWER CORD	UE
17 1B	E30-0545-05	POWER CORD	H
17 1B	E30-0587-05	POWER CORD	TT
-	H01-3175-04	CARTON BOX	*K
-	H01-3175-04	CARTON BOX	PU
-	H01-3175-04	CARTON BOX	MH
-	H01-3175-04	CARTON BOX	UE
-	H01-3175-04	CARTON BOX	X
-	H01-3178-04	CARTON BOX	*E
-	H01-3180-04	CARTON BOX	*E
-	H01-3181-04	CARTON BOX	*T
-	H01-3181-04	CARTON BOX	T
-	H10-1553-03	POLYSTYRENE FIXTURE	
-	H25-0078-04	BAG	
-	H25-0179-04	BAG	
-	H39-0018-05	PACKING PARTS	
-	J61-0045-05	WIRE BAND	
18 3A,3B	J02-0109-05	FOOT X4	
19A 1B	J19-0507-05	HOLDER	TE
19B 1B	J19-0564-05	HOLDER	KP
19B 1B	J19-0564-05	HOLDER	UM
19B 1B	J19-0564-05	HOLDER	HX
19B 1B	J19-0564-05	HOLDER	TE
19B 1B	J19-0564-05	HOLDER	UE
20 1B	J41-0034-05	BUSHING	KP
20 1B	J42-0084-05	BUSHING	UM
20 1B	J42-0084-05	BUSHING	HT
20 1B	J42-0084-05	BUSHING	ET
20 1B	J42-0084-05	BUSHING	UE
20 1B	J42-0084-05	BUSHING	E
20 1B	J42-0085-05	BUSHING	X
21 3B	K27-0148-04	KNOB X3	*
22 2A	K27-0149-04	KNOB X2	*
23 3B	K27-0151-04	KNOB X5	*K
23 3B	K27-0151-04	KNOB X5	PU
23 3B	K27-0151-04	KNOB X5	MH
23 3B	K27-0151-04	KNOB X5	XT
23 3B	K27-0151-04	KNOB X5	UE
23 3B	K27-0151-04	KNOB X5	E
23 3B	K27-0151-04	KNOB X6	*T
23 3B	K27-0151-04	KNOB X6	E
24 2A	K27-0176-04	KNOB	
25 3A	K29-0346-02	KNOB ASSY	*
26 3A	K29-0349-04	KNOB	*
27 3A	K29-0376-04	KNOB X3	
28 2A	K29-0377-04	KNOB X2	
29 3B	L01-2071-05	POWER TRANSFORMER	*K
29 3B	L01-2072-05	POWER TRANSFORMER	*T
29 3B	L01-2072-05	POWER TRANSFORMER	T
29 3B	L01-2075-05	POWER TRANSFORMER	*U
29 3B	L01-2075-05	POWER TRANSFORMER	MH
29 3B	L01-2075-05	POWER TRANSFORMER	UE
29 3B	L01-2075-05	POWER TRANSFORMER	X
29 3B	L01-2076-05	POWER TRANSFORMER	*E
29 3B	L01-2076-05	POWER TRANSFORMER	E
29 3B	L01-2077-05	POWER TRANSFORMER	*P
30 1B	N08-0128-05	DRESS SCREW	
31 1B	N09-0303-05	SCREW X2	
32 2A	N29-0035-05	PUSH RIVET X2	
38 1B	S31-2050-05	SLIDE SWITCH	UM
38 1B	S31-2050-05	SLIDE SWITCH	HX
38 1B	S31-2050-05	SLIDE SWITCH	EE
38 1B	S31-2050-05	SLIDE SWITCH	UE
39 1A	S40-1022-05	PUSH SWITCH	UM
39 1A	S40-1022-05	PUSH SWITCH	HX
39 1A	S40-1022-05	PUSH SWITCH	UE
39 1A	S40-1024-05	PUSH SWITCH	*K
39 1A	S40-1024-05	PUSH SWITCH	P
39 1A	S40-1025-05	PUSH SWITCH	*T
39 1A	S40-1025-05	PUSH SWITCH	ET
39 1A	S40-1025-05	PUSH SWITCH	E
-	T90-0202-05	ANTENNA (FM)	
40 1B	T90-0104-05	ANTENNA (AM LOOP)	KP
40 1B	T90-0104-05	ANTENNA (AM LOOP)	UM
40 1B	T90-0104-05	ANTENNA (AM LOOP)	HX
40 1B	T90-0104-05	ANTENNA (AM LOOP)	TE
40 1B	T90-0104-05	ANTENNA (AM LOOP)	UE
41 1B	T90-0107-05	ANTENNA (AM BAR)	*T
41 1B	T90-0107-05	ANTENNA (AM BAR)	E
42 2B	X05-1830-10	TUNER PCB ASSY	*K
42 2B	X05-1830-10	TUNER PCB ASSY	P
42 2B	X05-1830-81	TUNER PCB ASSY	*U
42 2B	X05-1830-81	TUNER PCB ASSY	MH
42 2B	X05-1830-81	TUNER PCB ASSY	X
42 2B	X05-1832-71	TUNER PCB ASSY	*T
42 2B	X05-1832-71	TUNER PCB ASSY	E
42 2B	X05-1832-72	TUNER PCB ASSY	*T
42 2B	X05-1832-72	TUNER PCB ASSY	E
43 2B	X09-1530-10	AUDIO AMP PCB ASSY	*K
43 2B	X09-1530-10	AUDIO AMP PCB ASSY	P
43 2B	X09-1530-51	AUDIO AMP PCB ASSY	*T
43 2B	X09-1530-51	AUDIO AMP PCB ASSY	T
43 2B	X09-1530-81	AUDIO AMP PCB ASSY	*U
43 2B	X09-1530-81	AUDIO AMP PCB ASSY	MH
43 2B	X09-1530-81	AUDIO AMP PCB ASSY	UE
43 2B	X09-1530-81	AUDIO AMP PCB ASSY	X
43 2B	X09-1532-71	AUDIO AMP PCB ASSY	*E
43 2B	X09-1532-71	AUDIO AMP PCB ASSY	E
44 2B	X13-2810-10	FREQ COUNTER PCB ASSY	*

TUNER (X05-1530-10, 81, X05-1532-71, 72)

102 2A	B38-0012-05	DISPLAY ASSY		*
103 2A	B38-0018-05	DISPLAY ASSY		*
D24	B30-0230-05	LED		E
C1	C24-1710-51	ELECTRO 1UF	50WV	
C2	C24-1747-41	ELECTRO 0.47UF	50WV	
C3 -6	C55-1710-38	CERAMIC 0.01UF	Z	
C7	C52-1733-16	CERAMIC 330PF	K	
C8	C24-1747-41	ELECTRO 0.47UF	50WV	
C9 ,10	C55-1710-38	CERAMIC 0.01UF	Z	
C11 ,12	C55-1747-38	CERAMIC 0.047UF	Z	
C13 ,14	C24-1210-61	ELECTRO 10UF	16WV	EE
C15	C24-1710-51	ELECTRO 1UF	50WV	
C16	C52-1768-16	CERAMIC 680PF	K	
C17	C48-1736-15	POLYSTY 360PF	J	
C18	C24-1722-51	ELECTRO 2.2UF	50WV	
C19	C24-1733-51	ELECTRO 3.3UF	50WV	
C20	C24-1747-41	ELECTRO 0.47UF	50WV	
C21	C24-1247-71	ELECTRO 470UF	16WV	
C22	C71-1747-05	CERAMIC 47PF	J	
C23 ,24	C24-1447-51	ELECTRO 4.7UF	25WV	
C25 ,26	C46-1710-25	MYLAR 0.001UF	J	EE

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
C25 ,26	C46-1715-25	MYLAR 0.0015UF J	K
C27 ,28	C46-1710-25	MYLAR 0.001UF J	U
C29 ,30	C46-1715-25	MYLAR 0.0015UF J	U
C31 ,32	C24-1710-51	ELECTRO 1UF 50WV	
C33 ,34	C46-1715-25	MYLAR 0.0015UF J	E[E]
C33 ,34	C46-1718-25	MYLAR 0.0018UF J	KU
C35	C24-1210-71	ELECTRO 100UF 16WV	
C36	C24-1710-51	ELECTRO 1UF 50WV	
C37	C46-1747-35	MYLAR 0.047UF K	
C40 ,41	C46-1747-35	MYLAR 0.047UF K	[E]
C42	C24-1210-61	ELECTRO 10UF 16WV	[E]
C43	C47-1715-15	POLYSTY 150PF J	[E]
C44	C48-1736-15	POLYSTY 360PF J	KU
C44	C48-1736-15	POLYSTY 360PF J	E
C44	C48-1743-15	POLYSTYRENE CAPACITOR	[E]
C45	C71-1739-06	CERAMIC 39PF J	[E]
C46	C91-0119-05	CERAMIC 0.047UF K	
C47	C71-1727-06	CERAMIC 27PF J	[E]
C48	C91-0333-05	CERAMIC 0.01UF M	
C49	C71-1722-06	CERAMIC 22PF J	
C50 -53	C91-0333-05	CERAMIC 0.01UF M	
C54	C52-1710-26	CERAMIC 0.001UF K	
C55	C55-1747-38	CERAMIC 0.047UF Z	
C56	C91-0333-05	CERAMIC 0.01UF M	
C57	C71-1747-05	CERAMIC 47PF J	
C58	C52-1710-26	CERAMIC 0.001UF K	
C59	C24-1710-51	ELECTRO 1UF 50WV	
C60	C24-1210-61	ELECTRO 10UF 16WV	
C61 ,62	C91-0333-05	CERAMIC 0.01UF M	
C63	C46-1747-35	MYLAR 0.047UF K	
C64	C24-1210-61	ELECTRO 10UF 16WV	
C65	C24-1210-71	ELECTRO 100UF 16WV	
C66	C46-1747-35	MYLAR 0.047UF K	
C67	C91-0119-05	CERAMIC 0.047UF K	
C68 -70	C91-0333-05	CERAMIC 0.01UF M	
C75 ,76	C24-1722-51	ELECTRO 2.2UF 50WV	
C77 ,78	C46-1733-25	MYLAR 0.0033UF J	
C79 ,80	C46-1712-35	MYLAR 0.012UF J	
C81 ,82	C71-1727-06	CERAMIC 27PF J	
C83 ,84	C71-1710-15	CERAMIC 100PF J	
C85 ,86	C25-1733-57	LL-ELEC 3.3UF 25WV	
C87 ,88	C71-1710-15	CERAMIC 100PF J	
C89 ,90	C24-1010-71	ELECTRO 100UF 10WV	
C92	C71-1739-06	CERAMIC 39PF J	
C93	C46-1722-35	MYLAR 0.022UF K	
C94	C71-1710-15	CERAMIC 100PF J	
C95	C71-1722-15	CERAMIC 220PF J	
C96	C24-1047-61	ELECTRO 47UF 10WV	
C97 ,98	C24-1447-51	ELECTRO 4.7UF 25WV	
C99 ,100	C46-1768-25	MYLAR 0.0068UF K	
C101,102	C46-1722-35	MYLAR 0.022UF K	
C105-108	C24-1210-61	ELECTRO 10UF 16WV	
C109	C71-1747-05	CERAMIC 47PF J	
C110	C24-1710-51	ELECTRO 1UF 50WV	
C111	C24-1210-61	ELECTRO 10UF 16WV	
C112	C24-1022-61	ELECTRO 22UF 10WV	
C114	C24-1210-61	ELECTRO 10UF 16WV	
C115	C46-1768-25	MYLAR 0.0068UF K	
C116	C24-1722-51	ELECTRO 2.2UF 50WV	
C117,118	C91-0119-05	CERAMIC 0.047UF K	
C119	C24-1710-51	ELECTRO 1UF 50WV	
C120	C46-1722-25	MYLAR 0.0022UF K	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
C121	C46-1710-35	MYLAR 0.01UF K	
C122	C46-1747-35	MYLAR 0.047UF K	
C125	C24-1747-41	ELECTRO 0.47UF 50WV	
C126	C24-1210-61	ELECTRO 10UF 16WV	
C128	C46-1733-45	MYLAR 0.33UF M	
C129	C55-1710-38	CERAMIC 0.01UF Z	
C130-132	C91-0119-05	CERAMIC 0.047UF K	
C133	C24-1210-61	ELECTRO 10UF 16WV	
C134	C46-1710-35	MYLAR 0.01UF K	
C135	C24-1710-51	ELECTRO 1UF 50WV	
C136	C24-1210-61	ELECTRO 10UF 16WV	
C137	C24-1210-71	ELECTRO 100UF 16WV	[E]
TC1	C05-0303-05	TRIMMER CAPACITOR 20P	
TC2	C05-0301-05	TRIMMER CAPACITOR 7P	[E]
TC2	C05-0303-05	TRIMMER CAPACITOR 20P	KU
TC2	C05-0303-05	TRIMMER CAPACITOR 20P	E
TC3 ,4	C05-0303-05	TRIMMER CAPACITOR 20P	[E]
104 1B	E06-0801-05	DIN CONNECTOR	
105 2A	E11-0076-05	PHONE JACK 2P	*
106 2B	E13-0423-05	PHONO JACK 4P	
107 2B	E13-0612-05	PHONO JACK 6P	
108 2B	E20-0439-05	TERMINAL BOARD 4P	
CF1 ,2	L72-0052-15	CERAMIC FILTER	KU
CF1 ,2	L79-0123-05	FILTER	E[E]
CF3	L72-0078-05	CERAMIC FILTER	
L1	L40-2292-11	INDUCTOR 2.2UH	
L2	L30-0323-05	IFT FM	
L3	L30-0324-05	IFT FM	
L4	L79-0109-05	LPF	E[E]
L5	L79-0127-05	LPF	*
L6	L31-0455-05	RF COIL MW	*K
L6	L31-0455-05	RF COIL MW	UE
L7	L79-0119-05	LPF	[E]
L8	L32-0240-05	OSCILLATING COIL LW	*[E]
L9	L32-0239-05	OSCILLATING COIL MW	*K
L9	L32-0239-05	OSCILLATING COIL MW	UE
L9	L32-0243-05	OSCILLATING COIL LW	*[E]
L10	L30-0329-05	IFT AM	
L11	L30-0284-05	IFT AM	
L12	L30-0350-05	IFT AM	*
L13	L30-0351-05	IFT AM	*
L14	L40-1021-45	INDUCTOR 1MH	KU
L14	L40-1021-45	INDUCTOR 1MH	E
L14	L40-1031-05	INDUCTOR 10MH	[E]
L15	L79-0127-05	LPF	*
-	R90-0137-05	MULTIPLE COMPONENTS	*
R4+C2	R90-0134-05	MULTIPLE COMPONENTS	*
R4+C1+J1	R90-0135-05	MULTIPLE COMPONENTS	*
R5+C1+J1	R90-0136-05	MULTIPLE COMPONENTS	*
R7+J1	R90-0132-05	MULTIPLE COMPONENTS	*
R24	R43-1210-15	FL-PROOF RD100 J 2E	
R33	R43-1256-05	FL-PROOF RD56 J 2E	
R72	R43-1210-15	FL-PROOF RD100 J 2E	
R195	R40-8310-16	RC 100 J 2E	K
VR1 ,2	R12-3045-05	TRIMMING POT. 10K	
VR3	R12-3046-05	TRIMMING POT. 47K	EE
VR3	R12-5031-05	TRIMMING POT. 220K	KU
VR4	R12-3045-05	TRIMMING POT. 10K	
VR5	R12-1038-05	TRIMMING POT. 1K	
VR6	R10-4003-05	POTENTIOMETER 109	*
VR7	R06-5054-05	POTENTIOMETER 110	*

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
VR8	R29-3002-05	POTENTIOMETER 111	*
-	S90-0036-05	REMOTE WIRE	[E]
S1	S31-2052-05	SLIDE SWITCH ANT ATT	*
S2	S31-4010-05	SLIDE SWITCH EMPHASIS	U
S3 -11	S40-1023-05	PUSH SWITCH 115	*
S12	S42-3039-05	PUSH SWITCH 3KEY 116	*
S13	S42-5017-05	PUSH SWITCH 5KEY 117	*K
S13	S42-5017-05	PUSH SWITCH 5KEY 117	UE
S13	S42-6007-05	PUSH SWITCH 6KEY 117	*[E]
S14	S90-0035-05	SLID SWITCH	[E]
D1 -3	V11-0271-05	1S2076,1S1555	
D4 ,5	V11-6101-00	SVC321-2(A,B)	*K
D4 ,5	V11-6101-00	SVC321-2(C)	*[E]
D4 ,5	V11-6101-00	SVC321-2(A,B)	UE
D6 ,7	V11-0051-05	1N60	
D8 ,9	V11-0271-05	1S2076,1S1555	[E]
D8	V11-0271-05	1S2076,1S1555	
D10 ,11	V11-0271-05	1S2076,1S1555	
D12	V11-0051-05	1N60	
D13 -22	V11-0271-05	1S2076,1S1555	
D23	V11-0271-05	1S2076,1S1555	[E]
IC1	V30-0192-05	HA1137W-05	
IC2	V30-0155-05	HA1196-01	
IC3	V30-0196-05	HA1197	
IC4 ,5	V30-0353-10	AN6551	
IC6	V30-0460-10	LC7207	*
IC7	V30-0297-20	TC4069UBP MC14069	
IC7		UPD4069	
IC8	V30-0462-10	SN74154N 74154PC	*
IC8		M53354P HD74154	*
IC9	V30-0459-10	LA5700	*
IC10,11	V30-0264-10	HA1457W	
IC12	V30-0175-05	UPC1024H	
Q1	V03-1923-00	2SC1923	
Q2 ,3	V03-0297-05	2SC945 2SC828A	
Q4	V03-0297-05	2SC945 2SC828A	[E]
Q5	V09-0144-40	2SK163 2SK136	[E]
Q6	V09-0144-40	2SK163 2SK136	
Q7 ,8	V03-0270-05	2SC945(R,Q) 2SC828A(P,Q)	
Q9 ,10	V09-0144-40	2SK163 2SK136	
Q11	V01-0733-90	2SA733(A) 2SA564A	
Q12	V03-0297-05	2SC945 2SC828A	
Q13	V09-0144-40	2SK163 2SK136	
Q14	V01-0733-90	2SA733(A) 2SA564A	
Q15	V03-0507-05	2SC1567(Q,R,S)	
Q16	V03-0297-05	2SC945 2SC828A	
Q17	V01-0733-90	2SA733(A) 2SA564A	
Q18 -20	V03-0297-05	2SC945 2SC828A	
-	W09-0016-05	BATTERY	*
120 2B	W02-0038-05	FM FRONT END	*

AUDIO AMP (X09-1530-10, 51, 81, X09-1532-71)

201 2A	B38-0013-05	DISPLAY ASSY	*
202 2A	B38-0014-05	DISPLAY ASSY	*
C1 ,2	C52-1739-16	CERAMIC 390PF K	
C3 ,4	C25-1733-57	LL-ELEC 3.3UF 25WV	
C5 ,6	C25-1710-57	LL-ELEC 1UF 50WV	
C7 ,8	C71-1715-16	CERAMIC 150PF J	
C9 ,10	C71-1705-01	CERAMIC 5PF C	
C11 ,12	C26-1710-57	NP-ELEC 1UF 50WV	
C13 ,14	C46-1722-35	MYLAR 0.022UF K	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
C15 ,16	C46-1710-45	MYLAR 0.1UF K	
C17 ,18	C24-1747-51	ELECTRO 4.7UF 35WV	
C19 ,20	C46-1710-35	MYLAR 0.01UF K	
C21 ,22	C46-1747-35	MYLAR 0.047UF K	
C23 ,24	C71-1718-06	CERAMIC 18PF J	
C25 -28	C71-1747-05	CERAMIC 47PF J	
C29 ,30	C46-1710-45	MYLAR 0.1UF M	
C51	C24-1410-61	ELECTRO 10UF 25WV	
C52	C24-1210-61	ELECTRO 10UF 16WV	
C53	C24-6522-71	ELECTRO 220UF 35WV	
C54	C24-1710-71	ELECTRO 100UF 50WV	
C55	C24-6510-71	ELECTRO 100UF 35WV	
C56 ,57	C24-1710-51	ELECTRO 1UF 50WV	
C58	C24-1222-61	ELECTRO 22UF 16WV	
C81 -83	C24-1410-71	ELECTRO 100UF 25WV	
C84	C24-1210-71	ELECTRO 100UF 16WV	
C85	C24-1722-51	ELECTRO 2.2UF 50WV	
C86	C24-1022-71	ELECTRO 220UF 10WV	
C87 ,88	C24-1447-61	ELECTRO 47UF 25WV	
C89	C24-1033-71	ELECTRO 330UF 10WV	
C90 ,91	C90-0472-05	ELECTROLYTIC CAPACITOR	*
C92,93 ,95	C54-2710-39	CERAMIC 0.01UF P	KU
C94	C91-0023-05	CERAMIC 0.01UF AC250V	U
C94	C91-0079-05	CERAMIC 0.01UF AC125V	KE
C94	C91-0079-05	CERAMIC 0.01UF AC125V	T
C92 ,93 ,95	C46-2010-47	CERAMIC 0.1UF M	ET
C96	C71-1715-16	CERAMIC 150PF J	
C97	C24-6510-69	ELECTRO 10UF 35WV	
C98	C24-1022-71	ELECTRO 220UF 10WV	
203 2A	E11-0077-05	PHONE JACK	*
204 1A	E20-0813-05	BINDING POST 8P	*
F1	F05-2521-05	FUSE 250V 2.5A	U
F1	F05-2523-05	FUSE 250V 2.5A	K
F1	F05-2525-05	FUSE 250V T2.5A	E
F2	F05-1222-05	FUSE 250V T1.25A	TE
F2	F05-1521-05	FUSE 250V 1.5A	U
-	J13-0041-05	FUSE HOLDER	KU
-	J13-0054-05	FUSE HOLDER	TE
L1 ,2	L39-0085-05	COIL	
R25 -28	R43-1233-05	FL-PROOF RD33 J 2E	
R29 ,30	R47-5410-05	FL-PROOF RS10 J 3A	
R31 ,32	R47-5447-95	FL-PROOF RS4.7 J 3A	
R35,36	R40-8356-16	RC 560 J 2E	
R56	R47-5422-25	FL-PROOF RS2.2K J 3A	
R62	R43-1247-05	FL-PROOF RD47 J 2E	
R67	R47-5456-05	FL-PROOF RS56 J 3A	
R68	R43-1247-95	FL-PROOF RD4.7 J 2E	
R74	R43-1210-25	FL-PROOF RD1K J 2E	
R81	R40-8310-26	RC 1K K 2H	
R84	R40-8310-26	RC 1K K 2H	
R85	R43-1222-15	FL-PROOF RD220 J 2E	
R86 ,87	R47-5556-15	FL-PROOF RS560 J 3D	
R88 ,89	R47-5547-05	FL-PROOF RS47 J 3D	
R93 ,94	R43-1268-05	FL-PROOF RD68 J 2E	
R96	R92-0173-05	RC 2.2M M 2H	
R98	R43-1256-15	FL-PROOF RD560 J 2E	
VR1	R05-7001-05	POTENTIOMETER 205	*
VR2,3	R10-4004-05	POTENTIOMETER 206	*
VR4 ,5	R12-3048-05	TRIMMING POT. 100K	
S1	S42-2034-05	PUSH SWITCH 2KEY 207	*

KR-80(L) KR-80(L)

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
D1 ,2	V11-0400-05	1N34A	
D3	V11-0423-05	1N60IFT	
D4	V11-0295-05	W06B	
D5 ,6	V11-4172-06	XZ-162	
D7	V11-4104-10	XZ-100	
D8	V11-0273-05	1S2076A	
D9	V11-0295-05	W06B	
D10 -13	V11-2400-40	GP20DL	
D14 ,15	V11-0273-05	1S2076A	
IC1	V30-0338-10	TA-1001	
IC2 ,3	V30-0458-10	STK-1035	*
Q1	V03-1845-10	2SC1845(F,E)	
Q2 -5	V01-0984-30	2SA984K(E,F)	
Q6	V03-0452-05	2SC1735 2SC1509(Q,R)	
Q7	V04-0613-00	2SD613 2SD726	*
Q8	V03-0270-05	2SC945(R,Q)2SC2320(E,F)	
FREQ COUNTER (X13-2810-10)			
301 2B	B38-0019-05	DISPLAY ASSY	*
C1	C24-1210-61	ELECTRO 10UF 16WV	
C2 ,3	C55-1710-38	CERAMIC 0.01UF Z	
C4	C71-1747-05	CERAMIC 47PF J	
C5	C91-0141-05	CERAMIC 0.047UF Z	
C6 ,7	C63-1727-05	CERAMIC 27PF J	
C8 -12	C52-1715-26	CERAMIC 0.0015UF K	
C13	C91-0141-05	CERAMIC 0.047UF Z	
C15 -17	C52-1715-26	CERAMIC 0.0015UF K	
C18	C24-1210-61	ELECTRO 10UF 16WV	
C19 ,20	C55-1710-38	CERAMIC 0.01UF Z	
L1	L40-1021-03	INDUCTOR 1.0MH	
L2	L40-1511-03	INDUCTOR	
L3	L40-2292-11	INDUCTOR	
X1	L77-0574-05	CRYSTAL RESONATOR	*
VR1 ,2	R12-3045-05	TRIMMING POT. 10K	
D1	V11-4176-76	XZ-057	
IC1	V30-0469-10	LC7259	*
IC2	V30-0409-10	AN6821	
IC3	V30-1005-26	SN74LS90N F74LS90PC	*
Q1 -3	V03-0270-05	2SC945(R,Q)2SC828A(P,Q)	
FM FRONT END (W02-0038-05)			
D1 -3	V11-7701-90	1SV68	
Q1	V09-0150-10	3SK85	
Q2	V03-0098-05	2SC535	
Q3	V03-0461-20	2SC461	
Q4	V09-0155-00	2SK168	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考

A product of
TRIO-KENWOOD CORPORATION
6-17, 3-chome, Aobadai, Meguro-ku, Tokyo 153, Japan

KENWOOD ELECTRONICS, INC.
1315 E. Watsoncenter Rd, Carson, California 90745, U.S.A.
75 Seaview Drive, Secaucus, New Jersey 07094, U.S.A.
1098 North Tower Lane Bensenville, Illinois 60106, U.S.A.
TRIO-KENWOOD ELECTRONICS, N.V.
Leuvensesteenweg 504 B-1930 Zaventem, Belgium
TRIO-KENWOOD ELECTRONICS GmbH
Rudolf-Braas-Str. 20, 6056 Heusenstamm, West Germany
TRIO-KENWOOD FRANCE S.A.
5, Boulevard Ney, 75018 Paris, France
TRIO-KENWOOD SVENSKA AB
Kemistvagen 10A, S-183 21 Taby, Sweden
TRIO-KENWOOD (AUSTRALIA) PTY. LTD.
30 Whiting St., Artarmon, N.S.W. 2064, Australia
KENWOOD & LEE ELECTRONICS, LTD.
Room 501, Wang Kee Building, 5th Floor, 34-37, Connaught Road, Central, Hong Kong

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